


**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	Predecessors	Jul	Aug	Sep	3rd Quarter	Oct
<b>KEY DATES &amp; MILESTONES</b>		<b>1123 days</b>	<b>Fri 4/12/20</b>	<b>Sun 31/12/23</b>						
1	Contract Period	1123 days	Fri 4/12/20	Sun 31/12/23	4FF,6					
2	Deferred Work Completion Key Dates	784 days	Mon 8/11/21	Sun 31/12/23						
3	Substantial Completion of the Whole Contract Works (1123 Days)	0 days	Sun 31/12/23	Sun 31/12/23	3,572FF					
<b>SITE POSSESSION DATES</b>		<b>513 days</b>	<b>Fri 4/12/20</b>	<b>Sun 1/5/22</b>						
4	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 4/12/20	Fri 4/12/20						
5	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 1/1/21	Fri 1/1/21						
6	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Sat 1/5/21	Sat 1/5/21						
7	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 1/10/21	Fri 1/10/21						
8	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 1/14/22	Fri 1/14/22						
9	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Sun 1/5/22	Sun 1/5/22						
<b>COMPLETION DATES as per PS1.4.2 Time for Completion</b>		<b>838 days</b>	<b>Thu 30/9/21</b>	<b>Tue 16/1/24</b>						
10	Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & F2	0 days	Thu 30/9/21	Thu 30/9/21	83FF					
11	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works	0 days	Mon 1/11/21	Mon 1/11/21	91FF					
12	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	0 days	Fri 28/7/23	Fri 28/7/23	98FF					
13	Section A2 (ii) External Works including CW Inlet Culvert at Area F8B	0 days	Tue 16/1/24	Tue 16/1/24	108FF					
14	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	0 days	Sat 28/10/23	Sat 28/10/23	116					
15	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	0 days	Wed 15/12/21	Wed 15/12/21	125FF					
16	Section B2 (i) - Southern Part of L12 HRSG areas and its surrounding refer to Area F8B as shown in drawing no 553/03/2040 including the foundations for Gas Exhaust Duct	0 days	Thu 30/9/21	Thu 30/9/21	132FF					
17	Section B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C	0 days	Mon 15/11/21	Mon 15/11/21	143FF					
18	Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil reservoir	0 days	Mon 28/2/22	Mon 28/2/22	154FF					
19	Section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser	0 days	Wed 15/12/21	Wed 15/12/21	169FF					
20	Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern areas mentioned above in Area F5	0 days	Sat 15/1/22	Sat 15/1/22	185FF					
21	Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south facade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works	0 days	Tue 30/5/23	Tue 30/5/23	192FF					
22	Section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB	0 days	Sun 7/5/23	Sun 7/5/23	228FF					
23	Section D - (i) Microwave Antenna Room and Chimney Windshield for the installation of microwave equipment and antenna	0 days	Fri 10/6/22	Fri 10/6/22	261FF					
24	Section D (ii) - No. 5 Chimney with L12 Steel Flue liner	0 days	Wed 21/6/23	Wed 21/6/23	240FF					
25	Section E (i) Tx Room of Administration and Control Building	0 days	Sun 31/10/21	Sun 31/10/21	274FF					
26	Section E (ii) - G/F, 1/F, 2/F & Hoisting Well of Admin. & Control Building	0 days	Mon 28/2/22	Mon 28/2/22	288FF					
27	Section E (iii) - Whole of Admin. And Control Building	0 days	Tue 31/5/22	Tue 31/5/22	264FF					
28	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14	0 days	Sun 9/4/23	Sun 9/4/23	307FF					
29	Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	0 days	Mon 31/7/23	Mon 31/7/23	319FF					
30	Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	0 days	Wed 5/7/23	Wed 5/7/23	327FF					
31	Section G (i) - External Work surrounding Area F11	0 days	Tue 31/10/23	Tue 31/10/23	349FF					
32	Section G (ii) - External Works at Area F12 & F13	0 days	Fri 20/10/23	Fri 20/10/23	359FF					
33	Section G (iii) - FS Modification works along South Seafront Road at Area F15	0 days	Fri 30/9/22	Fri 30/9/22	369FF					
34	Section G (iv) - 275kV cable trenches and External Works at Area F16	0 days	Mon 14/8/23	Mon 14/8/23	378FF					
35	Section G (v) - Shunt Reactor Compound and External Works at Area F17	0 days	Sat 3/6/23	Sat 3/6/23	388FF					
36	Section G (vi) - 275kV cable trenches and External Works at Area F18	0 days	Wed 1/6/22	Wed 1/6/22	407FF					
37	Section G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A	0 days	Tue 14/2/23	Tue 14/2/23	417FF					
38	Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	0 days	Sat 30/9/23	Sat 30/9/23	430FF					
39	Section G (ix) - Bund wall modification works at South Seafront Road at Area F21	0 days	Fri 15/10/21	Fri 15/10/21	445FF					
40	Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	0 days	Sun 16/7/23	Sun 16/7/23	459FF					
41	Section H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days	Sat 1/7/23	Sat 1/7/23	487FF					
<b>GENERAL &amp; PRELIMINARY</b>		<b>228 days</b>	<b>Fri 4/12/20</b>	<b>Mon 19/7/21</b>						
42	First Mobilization	18 days	Fri 4/12/20	Mon 21/12/20	6					
43	Set up Temporary Site Office and Welfare Facilities	90 days	Tue 22/12/20	Sun 21/3/21	46					
44	Permit Applications & Statutory Submissions	120 days	Mon 22/3/21	Mon 19/7/21	47					
45	Existing Utilities scanning & Excavation Permit	45 days	Tue 22/12/20	Thu 4/2/21	46					
46	Tower Crane erections	60 days	Sun 27/12/20	Wed 24/2/21	6FS+23 days					
<b>TECHNICAL SUBMISSION AND APPROVAL</b>		<b>1021 days</b>	<b>Thu 10/12/20</b>	<b>Wed 27/9/23</b>						
47	BD Approval & Consent (If required)	0 days	Thu 10/12/20	Thu 10/12/20	6FS+7 days					
48	Submission and Approval of Master Programme	14 days	Fri 11/12/20	Thu 24/12/20	6FS+7 days					
49	Work Execution Overall Plan submission & approval	14 days	Fri 11/12/20	Thu 24/12/20	6FS+7 days					
50	Material Submissions and approval	300 days	Fri 25/12/20	Wed 20/10/21	46,54					
51	Method Statement submission and approval	300 days	Fri 25/12/20	Wed 20/10/21	55SS					
52	BIM Model, CSD & CBWD Submission & approval	120 days	Fri 25/12/20	Fri 23/4/21	56SS					
53	Structure Steelwork Connection Design Submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21	52FS+18 days					
54	Structure Steelwork Shop Drawing & Approval	30 days	Fri 12/2/21	Sat 13/3/21	58					
55	Metal Cladding, louvre & windows submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21	58SS					
56	Metal Cladding, louvre & windows shop drawing submission	45 days	Fri 12/2/21	Sun 28/3/21	60					
57	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & Louvres)	120 days	Mon 29/3/21	Mon 26/7/21	59,61					
58	ELS Submission and BD approval	90 days	Fri 11/12/20	Wed 10/3/21	52					
59	No. 5 Chimney windshield temporary work submission, approval & fabrication	60 days	Fri 11/12/20	Mon 8/2/21	52					
60	Steel Flue Assessment Report and Design Drawings submission & approval	60 days	Tue 9/2/21	Fri 9/4/21	64					
61	Folding Shutters Shop Drawing Submission & Approval	30 days	Thu 11/2/21	Fri 12/3/21	55SS+48 days					
62	Fabrication & Delivery of Folding Shutters	180 days	Sat 13/3/21	Wed 8/9/21	66					
63	Sewage Pump System Design submission & approval	45 days	Wed 15/2/23	Fri 31/3/23	57SS+60 days					
64	Fabrication & Delivery of Sewage Pump	180 days	Sat 1/4/23	Wed 27/9/23	68					
65	Other material submission & approval & delivery	180 days	Sat 24/4/21	Wed 20/10/21	55SS+120 days					
66	Other material submission & approval & delivery	180 days	Sat 24/4/21	Wed 20/10/21	55SS+120 days					
<b>CONSTRUCTION</b>		<b>1139 days</b>	<b>Fri 4/12/20</b>	<b>Tue 16/1/24</b>						
67	Coordination with the Employer's Specialist Contractors	562 days	Fri 15/1/21	Sat 30/7/22						
68	Installation of Puddle Pipes at C.W. outlet Culvert	7 days	Mon 22/3/21	Sun 28/3/21	174					
69	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days	Thu 27/5/21	Wed 2/6/21	176					
70	Template setting at L12 Turbo Block Foundation	45 days	Tue 16/11/21	Thu 30/12/21	139SS+30 days, 149SS+30 days					
71	Template setting of holding down bolts at HRSG column base	45 days	Fri 15/1/21	Sun 28/2/21						
72	I-beam / channel base installation on top of transformer foundations at Transformer Area	45 days	Tue 1/6/21	Thu 15/7/21						
73	Overhead crane erection at turbine hall using access through a temporary opening at L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6	38 days	Mon 1/11/21	Wed 8/12/21						
74	Condenser assembly and erection using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C including a clear space below 1/F between GL 12-B to 12-C	122 days	Thu 16/12/21	Sat 16/4/22	169					

**MASTER PROGRAMME**  
Rev 1-B 23 Aug 2021




Task █ Split █ Milestone ◆ Summary █

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	Predecessors	Jul	Aug	Sep	3rd Quarter	Oct
81	Installation of power train equipment including air inlet duct using access through a temporary facade opening at L12 MSB below 1/F along GL 12-6 from GL12-F to 12-H including a clear space below 1/F of the above area	121 days	Fri 14/2/22	Sat 30/7/22	192					
82	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21	158					
83	<b>Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 &amp; F2</b>	<b>301 days</b>	<b>Fri 4/12/20</b>	<b>Thu 30/9/21</b>						
84	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6					
85	Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	60 days	Sun 17/1/21	Wed 17/3/21	94FS+14 days					
86	Excavation for CW Inlet Culvert (Type D Construction Area)	14 days	Tue 1/6/21	Mon 14/6/21	135					
87	Installation CW Inlet Culvert pipe	70 days	Tue 15/6/21	Mon 23/9/21	86					
88	Backfill	7 days	Tue 24/8/21	Mon 30/8/21	87					
89	Construction UG Utilities 2m deep below further surface	28 days	Tue 31/8/21	Mon 27/9/21	88					
90	Temporary Paving and handover for plant erection	3 days	Tue 28/9/21	Thu 30/9/21	89					
91	<b>Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works</b>	<b>333 days</b>	<b>Fri 4/12/20</b>	<b>Mon 1/11/21</b>						
92	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6					
93	Subletting / Fabrication / Delivery	210 days	Tue 23/2/21	Mon 20/9/21	84FS+14 days					
94	Complete structural steel erection	0 days	Tue 19/10/21	Tue 19/10/21						
95	Install Crane Girders	11 days	Tue 12/10/21	Fri 29/10/21	94					
96	Construction of roof slab (except defer work)	14 days	Tue 19/10/21	Mon 1/11/21						
97	Touch up and handover for install overhead cranes	3 days	Sat 30/10/21	Mon 1/11/21	96FF					
98	<b>Section A2 (i) External Works including CW Inlet Culvert at Area F8A</b>	<b>967 days</b>	<b>Fri 4/12/20</b>	<b>Fri 28/7/23</b>						
99	BD consent for Sheetpile installation	30 days	Fri 4/12/20	Sat 2/1/21	52SS-7 days					
100	Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days	Fri 18/12/20	Sat 16/1/21	99SS+14 days					
101	Area Possession & Clearance	14 days	Sat 2/1/21	Fri 15/1/21	7					
102	Install Sheet pile	55 days	Sat 16/1/21	Thu 11/3/21	101					
103	Installation of Additional sheet Pile at South of area F8A	7 days	Sat 17/4/21	Fri 23/4/21	102FS+60 days					
104	BD Consent for ELS	28 days	Sat 24/4/21	Fri 21/5/21	103					
105	ELS and install CW Inlet Pipe (NW to N direction) (Assume flexible joint deliver in Sep 2021)	100 days	Fri 16/7/21	Sat 23/10/21	104					
106	Construction of Thrust Box & Manholes,etc	15 days	Fri 16/9/21	Thu 30/9/21						
107	Backfill, UG Utilities and Road Paving	150 days	Wed 1/3/23	Fri 29/2/23	106					
108	<b>Section A2 (ii) External Works including CW Inlet Culvert at Area F8B</b>	<b>1139 days</b>	<b>Fri 4/12/20</b>	<b>Tue 16/1/24</b>						
109	Area Possession & Clearance	30 days	Mon 1/3/21	Tue 30/3/21	7FS+30 days					
110	BD consent for Sheetpile installation	30 days	Fri 4/12/20	Sat 2/1/21	99SS					
111	Install Sheet pile	90 days	Fri 2/4/21	Wed 30/6/21	103FS+21 days,102FS+21 days					
112	BD Consent for ELS	28 days	Thu 1/7/21	Wed 28/7/21	111					
113	ELS and install CW Inlet Pipe	100 days	Thu 29/7/21	Fri 5/11/21	112					
114	Construction of Thrust Box & Manholes,etc	15 days	Wed 1/9/21	Wed 15/9/21	113SS+34 days					
115	Backfill, UG Utilities and Road Paving	200 days	Sat 1/7/23	Tue 16/1/24	114					
116	<b>Section A2 (iii) External Works including CW Inlet Culvert at Area F8C</b>	<b>961 days</b>	<b>Fri 12/3/21</b>	<b>Sat 28/10/23</b>						
117	Area Possession & Clearance	30 days	Fri 12/3/21	Sat 10/4/21	9					
118	Subletting / Fabrication / Delivery (for Area F8C)	60 days	Fri 12/3/21	Mon 10/5/21	117SS					
119	BD consent for Sheetpile installation	30 days	Tue 13/4/21	Wed 12/5/21	117					
120	Install Sheet pile	62 days	Thu 13/5/21	Thu 13/7/21	119					
121	BD Consent for ELS	35 days	Wed 14/7/21	Tue 17/8/21	120					
122	ELS and install CW Inlet Pipe (including soil nail installation under 19/83014)	76 days	Wed 18/8/21	Thu 20/1/22	113,121					
123	Construction of Thrust Box & Manholes,etc	30 days	Fri 21/1/22	Sat 19/2/22	122					
124	Backfill, UG Utilities and Road Paving	150 days	Thu 1/6/23	Sat 28/10/23	123					
125	<b>Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3</b>	<b>377 days</b>	<b>Fri 4/12/20</b>	<b>Wed 15/12/21</b>						
126	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6					
127	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21	126SS+21 days					
128	Complete CW Pipe Installation & Thrust box	45 days	Tue 23/5/21	Thu 9/7/21	137FS+13 days					
129	Backfill	30 days	Fri 9/7/21	Sat 7/8/21						
130	Construction of Storm Drain & Manholes	67 days	Mon 20/9/21	Thu 25/11/21						
131	Temp Paving and handover for Condenser Move in	20 days	Fri 26/11/21	Wed 15/12/21	130					
132	<b>Section B2 - (i) Southern part of L12 HRSG area and its surrounding at Area F6B including the foundations for Gas Exhaust Duct</b>	<b>273 days</b>	<b>Fri 1/1/21</b>	<b>Thu 30/9/21</b>						
133	Area Possession & Clearance	30 days	Fri 1/1/21	Sat 30/1/21	7					
134	Subletting / Fabrication / Delivery (for F6B Civil and E&M)	120 days	Sat 2/1/21	Sat 1/5/21	133SS					
135	Construction of Underground pits	35 days	Tue 8/6/21	Mon 12/7/21	146					
136	Excavation & Construct Pile Caps & Tie Beams & Piers	86 days	Mon 8/3/21	Thu 19/8/21	135					
137	Installation of Pipe Pile for HRSG foundation (VO)	48 days	Thu 25/3/21	Tue 11/5/21	136SS+7 days					
138	Construction HRSG & Gas Duct foundations	112 days	Fri 7/5/21	Fri 3/9/21	137					
139	Construction of HRSG Equipment Room incl. ABWF & BS (except T&C)	64 days	Tue 4/5/21	Thu 30/9/21	138					
140	Construction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21	136SS+51 days,137SS+51 days					
141	Backfill & Construction on-grade slabs & RC plinths on top	14 days	Fri 30/7/21	Mon 27/9/21	140					
142	Backfill and Temporary paving	21 days	Fri 10/9/21	Thu 30/9/21	140FS-2 days					
143	<b>Section B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C</b>	<b>319 days</b>	<b>Fri 1/1/21</b>	<b>Mon 15/11/21</b>						
144	Area Possession and Clearance at Area F6A	30 days	Fri 1/1/21	Sat 30/1/21	7					
145	Subletting / Fabrication / Delivery (for Area F6A and F6C civil)	90 days	Sat 2/1/21	Thu 1/4/21	133SS					
146	Construction of Underground pits (HRSG Blowdown sump pit)	110 days	Sat 2/1/21	Wed 21/4/21	144SS					
147	Excavation & Construct Pile Caps & Tie Beams & Piers	139 days	Mon 1/2/21	Sat 10/7/21	146					
148	Construction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21	147					
149	Construction of Underground pits (GT Oil & Chemical drain pits)	15 days	Thu 5/8/21	Thu 19/8/21	138,148					
150	Backfill & Construction on-grade slabs & RC plinths on top	45 days	Sun 12/9/21	Tue 26/10/21	148					
151	Construct RC Walls	90 days	Thu 22/4/21	Tue 20/7/21	200					
152	Construction of Underground utilities at F6C	21 days	Tue 19/10/21	Mon 8/1/21	151					
153	Backfill and Temporary paving	7 days	Tue 9/11/21	Mon 15/11/21	152					
154	<b>Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil reservoir</b>	<b>452 days</b>	<b>Fri 4/12/20</b>	<b>Mon 28/2/22</b>						
155	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6					
156	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12)	150 days	Fri 25/12/20	Sun 23/5/21	155SS+21 days					
157	Complete excavation at Type A&C Construction Area	0 days	Sun 21/3/21	Sun 21/3/21	172					
158	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	75 days	Sun 31/1/21	Thu 15/4/21	157					
159	Backfill and construction turbine block & equipment foundation	85 days	Tue 1/6/21	Tue 24/8/21	160					
160	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	45 days	Sat 17/4/21	Mon 31/5/21	158FS+1 day					
161	Construction of internal drainage & on-grade slab	90 days	Wed 1/9/21	Mon 29/11/21	159,160					
162	Construction turbine block columns and upper portion for plant embed installation	83 days	Wed 25/8/21	Mon 15/11/21	159					
163	Concrete Turbine upper part foundation	15 days	Fri 31/12/21	Fri 14/1/22	162					
164	Construction of Lube Oil Room	60 days	Tue 30/11/21	Fri 28/1/22	161					
165	Concrete RC walls	115 days	Tue 7/9/21	Thu 30/12/21	162SS					
166	ABFW Works	60 days	Thu 4/11/21	Sun 21/1/22	165FS-57 days					
167	Building Services Works	45 days	Sat 15/1/22	Mon 28/2/22	166SS+15 days					
168	Remove temporary falsework and scaffolding for installation of power generator	13 days	Mon 7/2/22	Sat 19/2/22	163					

MASTER PROGRAMME  
Rev 1-B 23 Aug 2021




Task █ Split █ Milestone ◆ Summary ▾

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	Predecessors	Jul	Aug	Sep	3rd Quarter	Oct
169	<b>Section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser</b>	<b>377 days</b>	<b>Fri 4/12/20</b>	<b>Wed 15/12/21</b>						
170	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6					
171	Subletting / Fabrication / Delivery (for MSB L12 civil)	150 days	Fri 25/12/20	Sun 23/5/21	170SS+21 days					
172	Excavation to foundation level at ELS SP Type A & C	80 days	Fri 1/1/21	Sun 21/3/21	170SS+28 days					
173	Install CW Outlet pipe	85 days	Mon 22/3/21	Mon 14/6/21	172					
174	Construction of CW Outlet Box + lowest tie beam & caps	40 days	Mon 22/3/21	Fri 30/4/21	172					
175	Construction of pile caps & tie beams & sump pits up to +2.7mPD	26 days	Sat 1/5/21	Wed 26/5/21	174					
176	Backfill & Construction of CW Inlet Box + tie beams	71 days	Thu 27/5/21	Thu 5/8/21	175					
177	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Tue 15/6/21	Thu 29/7/21	176					
178	Backfill and Construction ground beams & trenches	28 days	Thu 27/5/21	Mon 5/7/21	177SS					
179	Construction of indoor underground drainage	14 days	Fri 13/8/21	Thu 26/8/21	178					
180	Backfill & construction on-grade slabs	60 days	Sun 1/8/21	Wed 29/9/21	177FS+1 day					
181	Construction Column casting and RC walls & equipment foundations	50 days	Thu 30/9/21	Thu 18/11/21	201					
182	ABFW Works	15 days	Fri 19/11/21	Fri 3/12/21	181					
183	Building Services Works	20 days	Fri 26/11/21	Wed 15/12/21						
184	Mis. Works and Ready for condenser move in	25 days	Wed 17/1/21	Wed 15/12/21	181FS-2 days					
185	<b>Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern &amp; eastern areas mentioned above in Area F5</b>	<b>408 days</b>	<b>Fri 4/12/20</b>	<b>Sat 15/1/22</b>						
186	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6					
187	Subletting / Fabrication / Delivery	210 days	Fri 25/12/20	Thu 22/7/21	186SS+21 days					
188	Complete substructure & Steel Erection works for MSB	0 days	Tue 17/8/21	Tue 17/8/21						
189	Construction all utilities deeper than 2m from future road level	30 days	Wed 18/8/21	Thu 16/9/21	188					
190	Construction of cable trenches	30 days	Fri 17/9/21	Sat 16/10/21	189					
191	Backfill and lay temporary paving	91 days	Sun 17/10/21	Sat 15/1/22	190					
192	<b>Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south facade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works</b>	<b>908 days</b>	<b>Fri 4/12/20</b>	<b>Tue 30/5/23</b>						
193	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6					
194	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21	193SS+21 days					
195	Construction of pile caps & tie beams at Transformer Area	180 days	Sun 31/1/21	Thu 29/7/21	172SS+30 days					
196	Backfill and on-grade slab at transformer Area	160 days	Sun 11/4/21	Thu 7/10/21	195FS-100 days					
197	Construction of Fire Walls at Transformer Area	45 days	Fri 8/10/21	Mon 29/11/21	196					
198	Excavation & Construction Blow Down Sum pit (SP Type B)	140 days	Wed 14/4/21	Tue 31/8/21	172,158FF					
199	Preparation for S.Steelwork Erection	7 days	Sat 5/6/21	Fri 11/6/21	198,158,148					
200	Structural Delivery & Erection (Turbine Hall North fr G.L. 1-3/H->B)	67 days	Sat 12/6/21	Tue 17/8/21	199					
201	Structural Delivery & Erection (Equipment Floors)	33 days	Wed 18/8/21	Sun 19/9/21	200,178					
202	Structural Delivery & Erection (Turbine Hall South + East Elevation)	47 days	Mon 20/9/21	Fri 5/11/21	201,128					
203	Joint Tightening and touch up coating	99 days	Sat 3/7/21	Wed 24/11/21	200					
204	External Scaffolding Erection	97 days	Thu 15/7/21	Mon 22/11/21	200					
205	Construction 1/F RC Slab	14 days	Mon 20/9/21	Sun 3/10/21	201					
206	Construction 2/F RC Slab	7 days	Mon 27/9/21	Sun 10/10/21	205					
207	Construction 3/F RC Slab	18 days	Thu 30/9/21	Sun 17/10/21	201					
208	Construction 4/F RC Slab	7 days	Thu 7/10/21	Sun 24/10/21	207					
209	Construction 5/F RC Slab	44 days	Mon 25/10/21	Tue 7/12/21	208					
210	Construction 6/F RC Slab	14 days	Wed 11/12/21	Tue 14/1/22	210					
211	Construction Upper Roof RC Slab	10 days	Sun 12/12/21	Fri 24/12/21	210					
212	Construction Main Roof RC Slab	39 days	Tue 12/10/21	Fri 19/11/21						
213	Construction Defer Roof RC Slab (G.L. G-H)	16 days	Sun 28/11/21	Mon 13/12/21	212FS+9 days					
214	Construction of Staircase ST-01 & lift shaft & machine room	130 days	Fri 27/8/21	Mon 3/1/22	200					
215	Construction M/F RC Slab	14 days	Fri 1/10/21	Thu 14/10/21	214SS+60 days					
216	Lift Installation	90 days	Thu 9/2/23	Tue 9/5/23	214					
217	Construction of Staircase ST-02 except defer work	68 days	Mon 11/10/21	Fri 24/12/21	207					
218	Construction of RC plinth, kerbs & parapet Walls	40 days	Sat 20/11/21	Wed 29/12/21	212					
219	Erection of Skylight & Roof Features	50 days	Fri 26/11/21	Fri 14/1/22	212					
220	Waterproofing & Flooring at Roof	34 days	Thu 30/12/21	Thu 17/2/22	219					
221	ABFW Works	600 days	Fri 8/10/21	Tue 30/5/23	205					
222	Building Services Works	550 days	Tue 16/11/21	Fri 19/5/23	221SS+21 days					
223	Metal Cladding, Windows and Louvres incl. roof feature	535 days	Mon 23/8/21	Wed 8/2/23	204SS+21 days					
224	Removal of external scaffolding	460 days	Wed 1/12/21	Sun 5/3/23	223SS+60 days					
225	Installation of Catwalk at south elevation	90 days	Thu 1/9/22	Wed 14/12/22						
226	Cladding, ABWF & BS Works	60 days	Thu 15/12/22	Sun 12/2/23	225					
227	Removal of temporary works & clearance for plant erection contractor	30 days	Sat 14/1/23	Sun 12/2/23	226FF					
228	<b>Section C - (iii) Link Bridge between L11 and L12 MSB includin their associated A&amp;A at L11 MSB</b>	<b>885 days</b>	<b>Fri 4/12/20</b>	<b>Sun 7/5/23</b>						
229	BD Consent	0 days	Fri 4/12/20	Fri 4/12/20	6					
230	Subletting / Fabrication / Delivery (For BS and ABWF)	250 days	Fri 25/12/20	Tue 31/8/21	193SS+21 days					
231	Clearing Works and plant set-up	30 days	Fri 3/12/21	Sat 1/1/22	229FS+255 days					
232	Dismantle of north scaffold for link bridge erection	0 days	Tue 25/1/22	Tue 25/1/22	224SS					
233	A&A works at South of L11 MSB	30 days	Fri 3/12/21	Sat 1/1/22	231SS					
234	Erection of link bridge structural steel	30 days	Sun 2/1/22	Mon 31/1/22	233					
235	Casting of bridge deck	11 days	Tue 1/2/22	Fri 11/2/22	234					
236	Metal roofing installation	30 days	Wed 22/2/23	Thu 23/3/23	234					
237	ABWF work	15 days	Fri 24/3/23	Fri 7/4/23	236					
238	BS Works	30 days	Sat 8/4/23	Sun 7/5/23	237					
239	Ready for power cable laying work by others	0 days	Sun 10/4/22	Sun 10/4/22	238					
240	<b>Section D - (ii) No. 5 Chimney with L12 Steel Flue Liner</b>	<b>902 days</b>	<b>Fri 1/1/21</b>	<b>Wed 21/6/23</b>						
241	Area Possession & Clearance	45 days	Fri 1/1/21	Sun 14/2/21						
242	Subletting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment)	120 days	Fri 8/1/21	Fri 7/5/21	241SS+7 days					
243	Excavation & Pile Cap & Backfill	90 days	Sat 2/1/21	Thu 1/4/21	241SS					
244	Tower Crane erection	30 days	Tue 11/5/21	Wed 9/6/21	243FF					
245	Construction of Wind Shiled + clearance for internal floors and flue+Ground slab	308 days	Fri 2/4/21	Mon 4/4/22	244					
246	Structural steel fabrication & Delivery for floors and staircase	415 days	Mon 3/1/22	Tue 21/2/23						
247	Erection of steel floors	79 days	Tue 19/4/22	Wed 6/7/22	246SS+60 days					
248	Construction of G/F room incl. Microwave Antenna Rm	45 days	Thu 7/7/22	Sat 20/8/22	245SS+90 days					
249	Construction of 1/F RC slab	8 days	Sat 13/8/22	Sat 20/8/22	247					
250	Construction of 2/F RC Slab	8 days	Fri 5/8/22	Fri 12/8/22						
251	Construction of 3/F RC slab	8 days	Thu 28/7/22	Thu 4/8/22						
252	Construction of 4/F RC slab	8 days	Thu 7/7/22	Thu 14/7/22						
253	Construction of Roof RC slab	61 days	Tue 21/6/22	Sat 20/8/22						
254	Removal of tower Crane	7 days	Sun 21/8/22	Sat 27/8/22	253					
255	Steel Flue fabrication and delivery	145 days	Sat 5/3/22	Wed 27/7/22						
256	Set up for steel flue installation	60 days	Tue 5/7/22	Fri 2/9/22						
257	Lift & install steel flue liner + cladding works	200 days	Thu 28/7/22	Sun 12/2/23						
258	Lift installation	120 days	Wed 22/2/23	Wed 21/6/23	246					
259	Installation Louvre & Doors	60 days	Mon 13/2/23	Thu 13/4/23	257					
260	Mis works, Demobilization and ready for gas duct connection	17 days	Thu 5/1/23	Sat 21/1/23						
261	<b>Section D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for installation of microwave and antenna</b>	<b>102 days</b>	<b>Tue 1/3/22</b>	<b>Fri 10/6/22</b>						
262	Completion of Microwave Antenna Room	0 days	Tue 1/3/22	Tue 1/3/22						
263	Remaining ABWF & BS Works	100 days	Thu 3/3/22	Fri 10/6/22	262FS+1 day					
264	<b>Section E - (i) Administration and Control Building (Transformer Room)</b>	<b>332 days</b>	<b>Fri 4/12/20</b>	<b>Sun 31/10/21</b>						
265	Area Possession & Clearance + BD consent	60 days	Fri 4/12/20	Mon 1/2/21	6					
266	Subletting / Fabrication / Delivery (For Civil-BS-ABWF)	100 days	Tue 2/2/21	Wed 12/5/21	265SS+21 days					

**MASTER PROGRAMME**  
Rev 1-B 23 Aug 2021




Task ■ Split ● Milestone ◆ Summary ▾

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12**

**Master Programme**

ID	Task Name	Duration	Start	Finish	Predecessors	Jul	Aug	Sep	3rd Quarter	Oct
267	Excavation works	45 days	Fri 4/12/20	Sun 17/1/21	265SS					
268	Main Earth Grid Installation	45 days	Sun 3/1/21	Tue 16/2/21	267FS-15 days					
269	Pile cap and Tie Beam	45 days	Sun 3/1/21	Tue 16/2/21	268SS					
270	Tower Crane Erection and modification works	49 days	Wed 10/2/21	Tue 30/3/21	269FS-7 days					
271	Substructure + Bearing walls + On grade slabs	115 days	Wed 17/2/21	Fri 11/6/21	269					
272	Construction of RC up to 1/F incl. staircases	69 days	Sat 12/6/21	Thu 19/6/21	271					
273	ABWF at G/F	52 days	Fri 10/9/21	Sun 31/10/21	272FS+21 days					
274	<b>Section E (i) Handover G/F, 1/F, 2/F &amp; Hoisting Well</b>	<b>452 days</b>	<b>Fri 4/12/20</b>	<b>Mon 28/2/22</b>						
275	Clearing Works and plant set-up	21 days	Sun 31/10/21	Sat 20/1/21						
276	Subletting / Fabrication / Delivery (For NSC Lift)	180 days	Sun 3/1/21	Sat 31/7/21	266SS					
277	Construction of RC up to 2/F incl. staircases	25 days	Sat 14/8/21	Mon 13/9/21	272					
278	Construction of RC up to 3/F incl. staircases	20 days	Thu 2/9/21	Tue 21/9/21	277SS+16 days					
279	Temporary Hoist erection	14 days	Wed 22/9/21	Tue 5/10/21	278					
280	Construction of RC up to 4/F incl. staircases	20 days	Thu 16/9/21	Tue 5/10/21	278SS+14 days					
281	Construction of RC up to R/F incl. staircases	25 days	Thu 30/9/21	Sun 24/10/21	280SS+14 days					
282	Construction of RC up to lift machine room	21 days	Mon 25/10/21	Sun 14/1/21	281					
283	Construction of RC up to UR/F	21 days	Mon 15/11/21	Sun 5/12/21	282					
284	External Wall Finish, Cladding + Windows and Louvres + Features	500 days	Thu 30/9/21	Sat 11/2/23	281SS					
285	ABWF at 1/F	95 days	Fri 8/10/21	Mon 10/1/22	277FS+24 days					
286	ABWF at 2/F	96 days	Fri 15/10/21	Tue 18/1/22	278FS+23 days					
287	Building Services Works at G/F, 1/F, 2/F & Hoisting Well	147 days	Tue 5/10/21	Mon 28/2/22	285SS-3 days					
288	<b>Section E (ii) Whole of Administration and Control Building</b>	<b>513 days</b>	<b>Sat 23/10/21</b>	<b>Sun 19/3/23</b>						
289	Subletting / Fabrication / Delivery (For BS+ABWF)	127 days	Sat 23/10/21	Sun 20/3/22	230FS+45 days					
290	Construction of New UG Grey Water Tank	60 days	Mon 21/3/22	Thu 19/5/22						
291	Submission of WWO46 for commencement	60 days	Wed 19/1/22	Sat 19/3/22	287SS-30 days					
292	ABWF at 3/F	500 days	Mon 25/10/21	Wed 8/3/23	286SS+10 days					
293	ABWF at 4/F	470 days	Wed 24/11/21	Wed 8/3/23	292SS+30 days					
294	ABWF at R/F	470 days	Wed 24/11/21	Wed 8/3/23	293SS					
295	ABWF at UR/F + Lift Machine Room	35 days	Wed 1/2/23	Mon 13/3/23	294,283FS+30 days					
296	Bridge Erection & Connection	28 days	Wed 9/3/22	Wed 27/4/22	295,298SS+35 days					
297	Installation of Raised floors	60 days	Thu 9/12/21	Sun 6/2/22	287SS+65 days					
298	Removal of external scaffolding	45 days	Sat 21/1/23	Tue 14/3/23	284FS-19 days					
299	Waterproofing & screeding	440 days	Mon 6/12/21	Sat 18/2/23	283					
300	Removal of Tower Crane	7 days	Thu 31/3/22	Wed 6/4/22	298FS+21 days					
301	External utilities and road work	45 days	Fri 20/1/23	Tue 7/3/23	298SS+21 days					
302	Building Services Works	450 days	Sat 4/12/21	Sun 26/2/23	293SS+41 days					
303	False ceiling after BS works	54 days	Sun 15/1/23	Sat 11/3/23	302FS-20 days					
304	Submission of WWO46 for completion	360 days	Wed 9/3/22	Fri 3/3/23	301FF					
305	Submission of FS inspection	14 days	Fri 3/3/23	Fri 17/3/23	287,304,291					
306	Submission for OP Inspection	14 days	Wed 8/3/23	Tue 21/3/23	301,304,305SS+5 days,291					
307	<b>Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14</b>	<b>678 days</b>	<b>Tue 1/6/21</b>	<b>Sun 9/4/23</b>						
308	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 29/8/21	8					
309	Subletting / Fabrication / Delivery	30 days	Tue 22/6/21	Wed 21/7/21	308SS+21 days					
310	Installation of pipe pile at north of GRS (VO)	125 days	Mon 5/7/21	Sat 6/11/21	309FS-16 days					
311	Construction Equipment room extension	145 days	Sun 31/10/21	Thu 24/3/22						
312	Modification of existing drainage	45 days	Fri 25/3/22	Sun 8/5/22	311					
313	Excavation & earthing for Skid foundations	21 days	Mon 9/5/22	Sun 29/5/22	296					
314	Construction of Skid foundation	45 days	Mon 30/5/22	Wed 13/7/22	313					
315	Construct underground utilities and drainage	45 days	Thu 14/7/22	Sat 27/8/22	314					
316	Backfill and road works	200 days	Sun 28/8/22	Wed 15/3/23	315					
317	Relocate / install new fencing for completion	21 days	Sun 5/3/23	Sun 26/3/23	316					
318	Mis. Work and ready for OP inspection	14 days	Mon 27/3/23	Sun 9/4/23	317					
319	<b>Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B</b>	<b>941 days</b>	<b>Sat 2/1/21</b>	<b>Mon 31/7/23</b>						
320	BD consent + Site Possession at Area F9A & F9B	90 days	Sat 2/1/21	Thu 14/4/21	7					
321	Excavation & Plate load test	30 days	Mon 1/11/21	Tue 30/11/21						
322	Construction new footing for pipe rack	30 days	Wed 1/12/21	Mon 23/5/22						
323	Underground utilities and road works for completion	11 days	Thu 3/1/22	Tue 31/5/22						
324	Structural Steel fabrication & Delivery	90 days	Sat 2/10/21	Tue 31/5/22						
325	Erection of new pipe rack	70 days	Fri 31/12/21	Thu 10/3/22						
326	Mis. Work and ready for OP inspection	31 days	Sat 17/3/23	Mon 31/7/23						
327	<b>Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10</b>	<b>765 days</b>	<b>Tue 1/6/21</b>	<b>Wed 5/7/23</b>						
328	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 14/11/21	9					
329	Subletting / Fabrication / Delivery For ABWF + BS	150 days	Wed 2/6/21	Fri 29/10/21	328SS					
330	Installation of Sheet Pile (VO)	85 days	Tue 1/6/21	Tue 24/8/21						
331	Consent for ELS Works	28 days	Wed 25/8/21	Tue 21/9/21						
332	Excavation & Plate load test	30 days	Wed 22/9/21	Thu 21/10/21	331					
333	Construction new footing for equipment room	68 days	Thu 23/12/21	Mon 28/2/22	332					
334	Superstructure for equipment room	60 days	Fri 1/3/22	Fri 29/4/22	333					
335	ABWF Works	45 days	Sat 30/4/22	Mon 13/6/22	334					
336	BS Works	400 days	Wed 1/6/22	Wed 5/7/23	335SS+3 days					
337	Construction RC Wall & plinths & drainage at Chlorinator area	280 days	Wed 30/3/22	Tue 3/1/23						
338	External wall finish & remove scaffolding	60 days	Sat 31/12/22	Tue 28/2/23	337					
339	Excavation & Plate load test for pipe rack extension (For F45-47 & F49)	30 days	Sat 16/10/21	Sun 14/11/21	332FS-6 days					
340	Construction new footing for pipe rack (For F45-47 & F49)	45 days	Mon 15/11/21	Wed 29/12/21	339					
341	Underground utilities and road works for completion	31 days	Wed 1/3/23	Fri 31/3/23	338					
342	Structural Steel fabrication & Delivery	90 days	Sun 12/12/21	Fri 11/3/22	341FF+12 days					
343	Backfilling and prepare for steel erection	12 days	Mon 28/2/22	Fri 11/3/22	342FS-12 days					
344	Excavation & Plate Load test for pipe rack extension (For F48 F56)	14 days	Wed 30/3/22	Tue 12/4/22	343FS+18 days					
345	Construction of new footing for pipe rack (For F48 & F56)	14 days	Wed 13/4/22	Tue 26/4/22	344					
346	Erection of new pipe rack (For F48 & F56)	65 days	Tue 3/5/22	Wed 6/7/22	345FS+6 days					
347	Erection of new pipe rack (For F45-47 & F49)	70 days	Sat 12/3/22	Fri 20/5/22	343					
348	Mis. Work and ready for OP inspection	56 days	Sun 7/5/23	Wed 5/7/23	336FF					
349	<b>Section G (i) - External Work surrounding Area F11</b>	<b>254 days</b>	<b>Mon 20/2/23</b>	<b>Tue 31/10/23</b>						
350	Area Possession & Clearance after handover from No. 5 Intake Contractor	31 days	Wed 1/3/23	Fri 31/3/23	11					
351	Subletting / Fabrication / Delivery	31 days	Mon 20/2/23	Wed 22/3/23	350SS					
352	Submission WWO046 for commencement	31 days	Wed 1/3/23	Fri 31/3/23	350SS					
353	Construct Underground utilities and drainage	150 days	Sat 1/4/23	Mon 28/8/23	350					
354	Install new FS Hydrant	20 days	Mon 10/7/23	Sat 29/7/23	353FF-30 days					
355	Submission WWO046 for completion	30 days	Sun 30/7/23	Mon 28/8/23	354					
356	Construction Road extension	58 days	Sun 30/7/23	Mon 25/9/23	354					
357	Construction road paving and install fencing	30 days	Tue 26/9/23	Wed 25/10/23	356					
358	Ready for OP inspection	14 days	Wed 18/10/23	Tue 31/10/23	357FS-8 days					
359	<b>Section G (ii) - External Works at Area F12 &amp; F13</b>	<b>961 days</b>	<b>Thu 4/3/21</b>	<b>Fri 20/10/23</b>						
360	Area Possession & Clearance after handover from other	45 days	Wed 17/5/23	Fri 30/6/23	6					
361	Subletting / Fabrication / Delivery	180 days	Thu 4/3/21	Mon 30/8/21	360SS+90 days					
362	Excavation	7 days	Sat 1/7/23	Fri 7/7/23	360					

MASTER PROGRAMME  
Rev 1-B 23 Aug 2021




Task Split Milestone Summary

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12 Master Programme**

ID	Task Name	Duration	Start	Finish	Predecessors	3rd Quarter	Oct
363	Submission WWO046 for commencement	30 days	Thu 8/6/23	Fri 7/7/23	362FF		
364	Construct Underground utilities and drainage	60 days	Sat 8/7/23	Tue 5/9/23	363		
365	Install new FS Hydrant	15 days	Wed 6/9/23	Wed 20/9/23	364		
366	Submission WWO046 for completion	30 days	Thu 21/9/23	Fri 20/10/23	365		
367	Construction Road extension	15 days	Thu 21/9/23	Thu 5/10/23	365		
368	Complete with Mis. Works for completion	15 days	Fri 6/10/23	Fri 20/10/23	367		
369	<b>Section G (iii) - FS Modification works along South Seafrost Road at Area F15</b>	<b>183 days</b>	<b>Fri 1/4/22</b>	<b>Fri 30/9/22</b>			
370	Area Possession & Clearance after handover from other	45 days	Fri 1/4/22	Sun 15/5/22	10		
371	Subletting / Fabrication / Delivery	21 days	Fri 1/4/22	Thu 21/4/22	370SS		
372	Temporary Traffic Arrangement approval	14 days	Fri 1/4/22	Thu 14/4/22	370SS		
373	Utilities scanning and expose existing FS	14 days	Fri 15/4/22	Thu 28/4/22	372		
374	Determine new FS alignment	21 days	Fri 29/4/22	Thu 19/5/22	373		
375	Submission to FSD	14 days	Fri 20/5/22	Thu 2/6/22	374		
376	Modification of FS	60 days	Fri 3/6/22	Mon 1/8/22	375		
377	Backfill and reinstatement + report to FSD	60 days	Tue 2/8/22	Fri 30/9/22	376		
378	<b>Section G (iv) - 275kV cable trenches and External Works at Area F16</b>	<b>836 days</b>	<b>Sat 1/5/21</b>	<b>Mon 14/8/23</b>			
379	Area Possession & Clearance	60 days	Sat 1/5/21	Tue 29/6/21	8		
380	Subletting / Fabrication / Delivery	210 days	Wed 17/11/21	Tue 14/6/22	379SS+200 days		
381	Temporary Traffic Arrangement approval	60 days	Sat 1/5/21	Tue 29/6/21	379SS		
382	Removal of aboveground services	60 days	Wed 30/6/21	Sat 28/8/21	381		
383	Utilities scanning and expose existing UU	30 days	Sun 29/8/21	Mon 27/9/21	382		
384	Arrange of diversion existing UG utilities	90 days	Tue 28/9/21	Sun 26/12/21	383		
385	Construct new cable trenches	550 days	Mon 27/12/21	Thu 29/6/23	384		
386	Realignment / install new UG utilities	30 days	Fri 23/6/23	Sun 23/7/23	385		
387	Backfill and reinstatement & ready for cable laying by others	45 days	Sat 17/7/23	Mon 14/8/23	386		
388	<b>Section G (v) - Shunt Reactor Compound and External Works at Area F17</b>	<b>912 days</b>	<b>Fri 4/12/20</b>	<b>Sat 3/6/23</b>			
389	Temporary Traffic Arrangement approval	45 days	Fri 4/12/20	Sun 17/1/21	6		
390	Subletting / Fabrication / Delivery	100 days	Fri 25/12/20	Sat 3/4/21	389SS+21 days		
391	BD approval & consent for pipe pile installation	90 days	Fri 4/12/20	Wed 3/3/21	389SS		
392	Area Possession & Clearance	14 days	Thu 4/3/21	Wed 17/3/21	391		
393	Removal of aboveground services	21 days	Thu 18/3/21	Wed 7/4/21	392		
394	Utilities scanning and expose existing UU	15 days	Thu 8/4/21	Thu 22/4/21	393		
395	Arrange of diversion existing UG utilities	45 days	Fri 23/4/21	Sun 6/6/21	394		
396	Install pipe piles	61 days	Sun 23/5/21	Thu 22/7/21	395SS+30 days		
397	BA14 for pipepile and BD consent for ELS	28 days	Fri 23/7/21	Thu 19/8/21	396		
398	Excavation & install earthing	35 days	Fri 20/8/21	Thu 23/9/21	397		
399	Construct Pile Caps and Tie Beams	45 days	Fri 24/9/21	Sun 11/1/21	398		
400	Backfill & Erect scaffold	21 days	Mon 8/1/21	Sun 28/1/21	399		
401	Construction of SRC Walls	75 days	Mon 29/1/21	Fri 11/2/22	400		
402	Wall finish and remove scaffolding	380 days	Sat 12/2/22	Sun 26/2/23	401		
403	Construct new cable trenches	60 days	Thu 9/2/23	Sun 9/4/23	402		
404	Install new UG Utilities. Backfill and reinstatement & ready for cable laying by Others for DAX1	55 days	Thu 7/4/22	Tue 31/5/22	403SS+30 days		
405	Realignment / install new UG utilities (for DAX2, APX1 & APX3)	30 days	Tue 4/4/23	Thu 4/5/23	403		
406	Backfill and reinstatement & ready for cable laying by others (for DAX2, APX1, & APX3)	30 days	Thu 4/5/23	Sat 3/6/23	405		
407	<b>Section G (vi) - 275kV cable trenches and External Works at Area F18</b>	<b>397 days</b>	<b>Sat 1/5/21</b>	<b>Wed 1/6/22</b>			
408	Temporary Traffic Arrangement approval	45 days	Sat 1/5/21	Mon 14/6/21	8		
409	Subletting / Fabrication / Delivery	60 days	Tue 15/6/21	Fri 13/8/21	389SS+21 days,408		
410	Area Possession & Clearance	15 days	Sat 1/5/21	Sat 15/5/21	408SS		
411	Removal of aboveground services	30 days	Sun 16/5/21	Mon 14/6/21	410		
412	Utilities scanning and expose existing UU	45 days	Tue 15/6/21	Thu 29/7/21	411		
413	Arrange of diversion existing UG utilities	60 days	Fri 30/7/21	Mon 27/9/21	412		
414	Construct new cable trenches	172 days	Tue 28/9/21	Fri 18/3/22	413		
415	Realignment / install new UG utilities	45 days	Sat 19/3/22	Mon 2/5/22	414		
416	Backfill and reinstatement & ready for cable laying by others	30 days	Tue 3/5/22	Wed 1/6/22	415		
417	<b>Section G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A</b>	<b>803 days</b>	<b>Fri 4/12/20</b>	<b>Tue 14/2/23</b>			
418	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6		
419	Subletting / Fabrication / Delivery	60 days	Fri 25/12/20	Mon 22/2/21	418SS+21 days		
420	Temporary Traffic Arrangement approval	300 days	Fri 4/12/20	Wed 29/9/21	418SS		
421	ELS BD approval & consent	90 days	Fri 18/12/20	Wed 17/3/21	420		
422	Demolition of existing carriageway	30 days	Thu 11/1/21	Fri 10/12/21	421SS-7 days		
423	Removal of aboveground services	21 days	Thu 30/9/21	Wed 20/10/21	422		
424	Utilities scanning and expose existing UU	21 days	Thu 21/10/21	Wed 10/11/21	423		
425	Arrange of diversion existing UG utilities	30 days	Sat 11/12/21	Sun 9/1/22	424		
426	Excavation and construction of new Flood wall	65 days	Mon 10/1/22	Tue 15/3/22	425		
427	Realignment / install new UG utilities	30 days	Wed 16/3/22	Thu 14/4/22	426		
428	Backfill and construct new carriageway	300 days	Fri 15/4/22	Wed 8/2/23	427		
429	Mis. Work for completion	6 days	Thu 9/2/23	Thu 14/2/23	428		
430	<b>Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B</b>	<b>729.5 days</b>	<b>Fri 1/10/21</b>	<b>Sat 30/9/23</b>			
431	Area Possession & Clearance	45 days	Fri 1/10/21	Sun 14/11/21	9		
432	Subletting / Fabrication / Delivery	90 days	Fri 22/10/21	Wed 19/1/22	431SS+21 days		
433	Temporary Traffic Arrangement approval	14 days	Fri 1/10/21	Thu 14/10/21	431SS		
434	ELS BD approval & consent	90 days	Fri 15/10/21	Wed 12/1/22	433		
435	Demolition of existing carriageway	630 days	Fri 1/10/21	Thu 22/6/23	431SS		
436	Removal of aboveground services	21 days	Tue 20/6/23	Tue 11/7/23	435		
437	Utilities scanning and expose existing UU	21 days	Wed 5/7/23	Wed 26/7/23	436		
438	Arrange of diversion existing UG utilities	30 days	Sun 23/7/23	Tue 22/8/23	437		
439	Install Sheetpiles	55 days	Thu 10/2/22	Tue 5/4/22	438		
440	BA14 for sheetpile and BD consent for ELS	28 days	Wed 6/4/22	Tue 3/5/22	439		
441	Excavation and construction of new Flood wall	30 days	Wed 26/7/23	Fri 25/8/23	438		
442	Realignment / install new UG utilities	15 days	Fri 25/8/23	Sat 9/9/23	441		
443	Backfill and construct new carriageway	21 days	Thu 7/9/23	Thu 28/9/23	442		
444	Mis. Work for completion	9 days	Thu 21/9/23	Sat 30/9/23	443FS-7 days		
445	<b>Section G (ix) - Bund wall modification works at South Seafrost Road at Area F21</b>	<b>316 days</b>	<b>Fri 4/12/20</b>	<b>Fri 15/10/21</b>			
446	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6		
447	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	Wed 24/3/21	446SS+21 days		
448	Temporary Traffic Arrangement approval	165 days	Fri 4/12/20	Mon 17/5/21	446SS		
449	ELS BD approval & consent	0 days	Thu 17/12/20	Thu 17/12/20	448		
450	Demolition of existing carriageway	14 days	Tue 18/5/21	Mon 31/5/21	449		
451	Removal of aboveground services	14 days	Tue 1/6/21	Mon 14/6/21	450		
452	Utilities scanning and expose existing UU	21 days	Tue 15/6/21	Mon 5/7/21	451		
453	Arrange of diversion existing UG utilities (include FS pipe under 17/8002)	40 days	Tue 6/7/21	Sat 14/8/21	452		
454	Excavation and expose existing bund wall & demolish	18 days	Wed 28/7/21	Sat 14/8/21	452FS+22 days		
455	Construction new bund wall for road junction	21 days	Sat 4/9/21	Fri 24/9/21	454FS+20 days		
456	Realignment / install new UG utilities (include FS pipe under 17/8002)	60 days	Sun 1/8/21	Wed 29/9/21	452FS+26 days		
457	Backfill and construct new carriageway	16 days	Thu 30/9/21	Fri 15/10/21	456		
458	Mis. Work for completion	5 days	Mon 11/10/21	Fri 15/10/21	457FS-5 days		
459	<b>Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)</b>	<b>955 days</b>	<b>Fri 4/12/20</b>	<b>Sun 16/7/23</b>			
460	Temporary Traffic Arrangement approval	14 days	Fri 4/12/20	Thu 17/12/20	6		
461	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	Wed 24/3/21	446SS+21 days,460		
462	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	460SS		
463	Identification of existing cable trench	7 days	Mon 18/1/21	Sun 24/1/21	462		
464	Part 1 Re-excavation works incl.construction of joint bay (at Water Reservoir Road)	246 days	Mon 25/1/21	Mon 27/9/21	463		
465	Part 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	310 days	Mon 25/1/21	Tue 30/11/21	464SS		
466	Part 2 Re-excavation works incl. joint bay	120 days	Mon 1/11/21	Mon 28/2/22			
467	Part 3 Re-excavation works incl. joint bay	500 days	Mon 1/11/21	Wed 15/3/23			

MASTER PROGRAMME  
Rev 1-B 23 Aug 2021




Task  Split  Milestone  Summary 

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12 Master Programme**

ID	Task Name	Duration	Start	Finish	Predecessors	Jul	Aug	Sep	3rd Quarter	Oct
468	Part 4 Re-excavation works incl. joint bay & new oil tank pits	92 days	Sat 1/10/22	Sat 31/12/22						
469	Backfill & Reinstatement Part 1	61 days	Mon 1/11/21	Fri 31/12/21	466SS					
470	Backfill & Reinstatement Part 2	61 days	Sun 1/5/22	Thu 30/6/22	466FS+61 days					
471	Backfill & Reinstatement Part 3	61 days	Wed 17/5/23	Sun 16/7/23	467FS+62 days					
472	<b>Section H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection (PS1.4.4)</b>	<b>736.15 days</b>	<b>Wed 17/11/21</b>	<b>Thu 23/11/23</b>						
473	<b>Deferred works (MSB &amp; HRSG) Listed in PS 1.4.4</b>	<b>539 days</b>	<b>Wed 17/11/21</b>	<b>Tue 9/5/23</b>						
474	Construction of L12 MSB between GL 12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the Employer's Specialist Contractors	38 days	Wed 17/11/21	Tue 4/1/22	213SS					
475	Construction of walls of L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircases including the enclosure walls between G/F and 1/F. The Contractor shall allow access for the Employer's Specialist Contractors to use the hoisting we	92 days	Mon 16/5/22	Mon 15/8/22	80					
476	Provision in associated with hoisting well	21 days	Mon 6/6/22	Sun 26/6/22	475SS+21 days					
477	Construction of internal partition wall at 1/F of L12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Façade at 1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C	30 days	Wed 1/3/23	Thu 30/3/23						
478	Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable shelter at Transformer Area	120 days	Tue 10/1/23	Tue 9/5/23						
479	<b>Deferred works (DAX1 and DAX2) Listed in PS 1.4.4</b>	<b>151 days</b>	<b>Sun 1/1/23</b>	<b>Wed 31/5/23</b>						
480	Backfilling of whole DAX1 compartment inside existing joint bay "STJ12" and the new oil tank pit A located aside existing joint bay "STJ12".	59 days	Wed 1/2/23	Fri 31/3/23	469SS					
481	Re-excavation of whole DAX2 compartment inside existing joint bay "STJ12".	61 days	Sun 1/1/23	Thu 2/3/23	470					
482	Backfilling of whole DAX2 compartment inside existing joint bay "STJ12" and the new oil tank pit B located aside existing joint bay "STJ12".	61 days	Sat 1/4/23	Wed 31/5/23						
483	<b>Deferred works (External Work) Listed in PS 1.4.4</b>	<b>357.15 days</b>	<b>Thu 1/12/22</b>	<b>Thu 23/11/23</b>						
484	Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area	320 days	Thu 1/12/22	Mon 16/10/23	185					
485	Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.	30 days	Sun 1/1/23	Thu 28/9/23	387FF,406FS+92 days,416					
486	Backfilling and road-reinstatement of 275kV cable trenches	60 days	Sun 1/1/23	Thu 23/11/23	485					
487	All Remaining work ready for OP inspection	0 days	Sat 1/7/23	Sat 1/7/23						
488	<b>STATUTORY SUBMISSION, INSPECTION &amp; APPROVAL</b>	<b>560 days</b>	<b>Tue 16/11/21</b>	<b>Mon 29/5/23</b>						
489	<b>WSD Statutory Submission, Inspection and Approval WWO Part I to III Submission / Approval</b>	<b>256 days</b>	<b>Tue 16/11/21</b>	<b>Fri 29/7/22</b>						
490	WSD: Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)	0 days	Tue 16/11/21	Tue 16/11/21	222SS,287SS					
491	WSD: Vetting Form WWO 046 Part I and II Submission	90 days	Wed 17/11/21	Mon 14/2/22	490SS+1 day					
492	WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building	0 days	Tue 15/2/22	Tue 15/2/22	491FS+1 day					
493	WSD: Prepare for 1st Amendment for Plumbing Plan	60 days	Tue 15/2/22	Fri 15/4/22	492FS-1 day					
494	WSD: Submit to WSD 1st Amendment for Plumbing Plan	0 days	Fri 15/4/22	Fri 15/4/22	493					
495	WSD: Vetting of Plumbing Plan by WSD	60 days	Sat 16/4/22	Tue 14/8/22	494					
496	WSD: 1st Approval for Plumbing Plan by WSD	0 days	Tue 14/6/22	Tue 14/6/22	495					
497	WSD: Prepare and Submit for Final Amendment for Plumbing Plan	45 days	Wed 15/6/22	Fri 29/7/22	496					
498	WSD: Vetting and Final Approval for Plumbing Plan by WSD	0 days	Fri 29/7/22	Fri 29/7/22	497					
499	<b>WSD Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission / Approval</b>	<b>33 days</b>	<b>Fri 29/7/22</b>	<b>Wed 31/8/22</b>						
500	WSD: Form WWO 046 Part IV Submission (FS)	0 days	Fri 3/3/23	Fri 3/3/23	498					
501	WSD: WSD Received Form WWO046 Part IV and arrange for inspection (FS)	7 days	Fri 3/3/23	Thu 9/3/23	500					
502	WSD: WSD Inspection (FS)	7 days	Fri 10/3/23	Thu 16/3/23	501					
503	WSD: WWO 046 Part V Endorsement by WSD (FS)	12 days	Fri 17/3/23	Tue 28/3/23	502					
504	WSD: WSD Processing Water Supply Connection Certificate (FS)	7 days	Wed 29/3/23	Tue 4/4/23	503					
505	WSD: Issue by WSD Water Supply Connection Certificate (FS)	0 days?	Tue 4/4/23	Tue 4/4/23	504FF					
506	<b>WSD Statutory Submission, Inspection and Approval WWO Part IV to V Potable / Flush Water Submission / Approval</b>	<b>60 days</b>	<b>Fri 3/3/23</b>	<b>Mon 1/5/23</b>						
507	WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 3/3/23	Fri 3/3/23	498FS+21 days					
508	WSD: WSD Acknowledge Form WWO 046	6 days	Fri 3/3/23	Wed 8/3/23	507					
509	WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	12 days	Thu 9/3/23	Mon 20/3/23	508					
510	WSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush)	6 days	Tue 21/3/23	Sun 26/3/23	509					
511	WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	12 days	Mon 27/3/23	Fri 7/4/23	510					
512	WSD: Accredited Lab Testing Report of Sample to WSD	12 days	Sat 8/4/23	Wed 19/4/23	511					
513	WSD: Vetting of Test Report by WSD	6 days	Thu 20/4/23	Tue 25/4/23	512					
514	WSD: Issue of WWO 046 Part V (Fresh/Flush)	0 days	Tue 25/4/23	Tue 25/4/23	513					
515	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	6 days	Wed 26/4/23	Mon 1/5/23	514					
516	WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush)	0 days	Mon 1/5/23	Mon 1/5/23	515					
517	<b>EMSD LIFT Statutory Submission, Inspection and Approval</b>	<b>45 days</b>	<b>Wed 15/2/23</b>	<b>Fri 31/3/23</b>						
518	EMSD: Submission of Lift Form LE5 to EMSD	12 days	Wed 15/2/23	Sun 26/2/23						
519	EMSD: EMSD Makes arrangement for Lift Installation	5 days	Mon 27/2/23	Fri 3/3/23	518					
520	EMSD: EMSD Inspection to Lift Installation	14 days	Sat 4/3/23	Fri 17/3/23	519					
521	EMSD: Processing Lift Certificate (Form LE6)	14 days	Sat 18/3/23	Fri 31/3/23	520					
522	EMSD: Lift Issuance of Form 6 (Lift Certificate)	0 days	Fri 31/3/23	Fri 31/3/23	521					
523	<b>HKE Transformer Final Inspection</b>	<b>120 days</b>	<b>Sat 30/7/22</b>	<b>Sat 26/11/22</b>						
524	TX Room: Invite HKE For Transformer Room Inspection	7 days	Sat 30/7/22	Fri 5/8/22	296FF+100 days					
525	TX Room: Give Access to Transformer Room for HKE Contractor	0 days	Fri 5/8/22	Fri 5/8/22	524					
526	TX Room: Move-IN HKE Transformer Equipments	5 days	Sat 6/8/22	Wed 10/8/22	525					
527	TX Room: Install HKE Transformer, MEP Works & Testing	90 days	Thu 11/8/22	Tue 9/11/22	526					
528	TX Room: HKE Power Energization / Inspection	6 days	Wed 9/11/22	Mon 14/11/22	527					
529	TX Room: Metering Installation	12 days	Tue 15/11/22	Sat 26/11/22	528					
530	TX Room: HKE Power-ON Date	0 days	Sat 26/11/22	Sat 26/11/22	529					
531	<b>DSD Drainage Completion Memo</b>	<b>65 days</b>	<b>Fri 30/6/23</b>	<b>Sat 2/9/23</b>						
532	DSD: CCTV Survey Report on Completed Drainage	30 days	Fri 30/6/23	Sat 29/7/23	352FF+120 days					
533	DSD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit	7 days	Sun 30/7/23	Sat 5/8/23	532					
534	DSD: Completed Drainage System including TMC Inspection/Technical Audit by DSD	14 days	Sun 6/8/23	Sat 19/8/23	533					
535	DSD: Preparation of Drainage Connection Completion Memo by DSD	14 days	Sun 20/8/23	Sat 2/9/23	534					
536	DSD: Issue of Drainage Connection Completion Memo by DSD	0 days	Sat 2/9/23	Sat 2/9/23	535					
537	<b>EPD Submission, Inspection and Approval</b>	<b>60 days</b>	<b>Wed 5/7/23</b>	<b>Sun 3/9/23</b>						
538	EPD: License Application to EPD under APCO (Cap 311) for Generator Sets	0 days	Wed 5/7/23	Wed 5/7/23	336					
539	EPD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets	60 days	Thu 6/7/23	Sun 3/9/23	538					
540	EPD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	0 days	Sun 3/9/23	Sun 3/9/23	539					
541	<b>FSD VAC Statutory Submission, Inspection and Approval</b>	<b>150 days</b>	<b>Wed 20/7/22</b>	<b>Fri 16/12/22</b>						
542	Preparation of FSD VAC Drawings and Submission to HEC	60 days	Wed 20/7/22	Sat 17/9/22	347FF+120 days					
543	HEC: Review and Approval	30 days	Sun 18/9/22	Mon 17/10/22	542					
544	Preparation of VAC Drawings and Submission to FSD	30 days	Tue 18/10/22	Wed 16/11/22	543					
545	FSD: Review and Approval	30 days	Thu 17/11/22	Fri 16/12/22	544					
546	<b>FSD Statutory Submission, Inspection and Approval</b>	<b>91 days</b>	<b>Sun 15/1/23</b>	<b>Sat 15/4/23</b>						
547	Testing and Commissioning (Individual System - FSI Related)	45 days	Sun 15/1/23	Tue 28/2/23						
548	FSD: All Sections FS Ingration Test by NSC_BS	15 days	Wed 1/3/23	Wed 15/3/23	547					
549	FSD: Completion of FS Ingration Test by NSC_BS for FS314/501	0 days	Wed 15/3/23	Wed 15/3/23	548					
550	FSD: Submit Form 213/314 & Form 501 Request for Inspection	0 days	Wed 15/3/23	Wed 15/3/23	549					
551	FSD: FSD Makes Arrangement for Inspection	7 days	Thu 16/3/23	Wed 22/3/23	550					
552	FSD: FSD Inspection	12 days	Thu 23/3/23	Mon 3/4/23	551					
553	FSD: Completion of FS Inspection	0 days	Mon 3/4/23	Mon 3/4/23	552					
554	FSD: FSD Processing FS Certificate Form 172	12 days	Tue 4/4/23	Sat 15/4/23	553					
555	FSD: Issue of Fire Services FS Certificate Form 172	0 days	Sat 15/4/23	Sat 15/4/23	554					
556	<b>PRACTICAL COMPLETION</b>	<b>216 days</b>	<b>Sun 16/4/23</b>	<b>Fri 17/11/23</b>						
557	BD Inspection	97 days	Sun 16/4/23	Fri 21/7/23						
558	BD: Application Form BA13 for OP Application	21 days	Sun 16/4/23	Sat 6/5/23	555					
559	BD: BD Inspection Date	15 days	Sun 7/5/23	Sun 21/5/23	558					

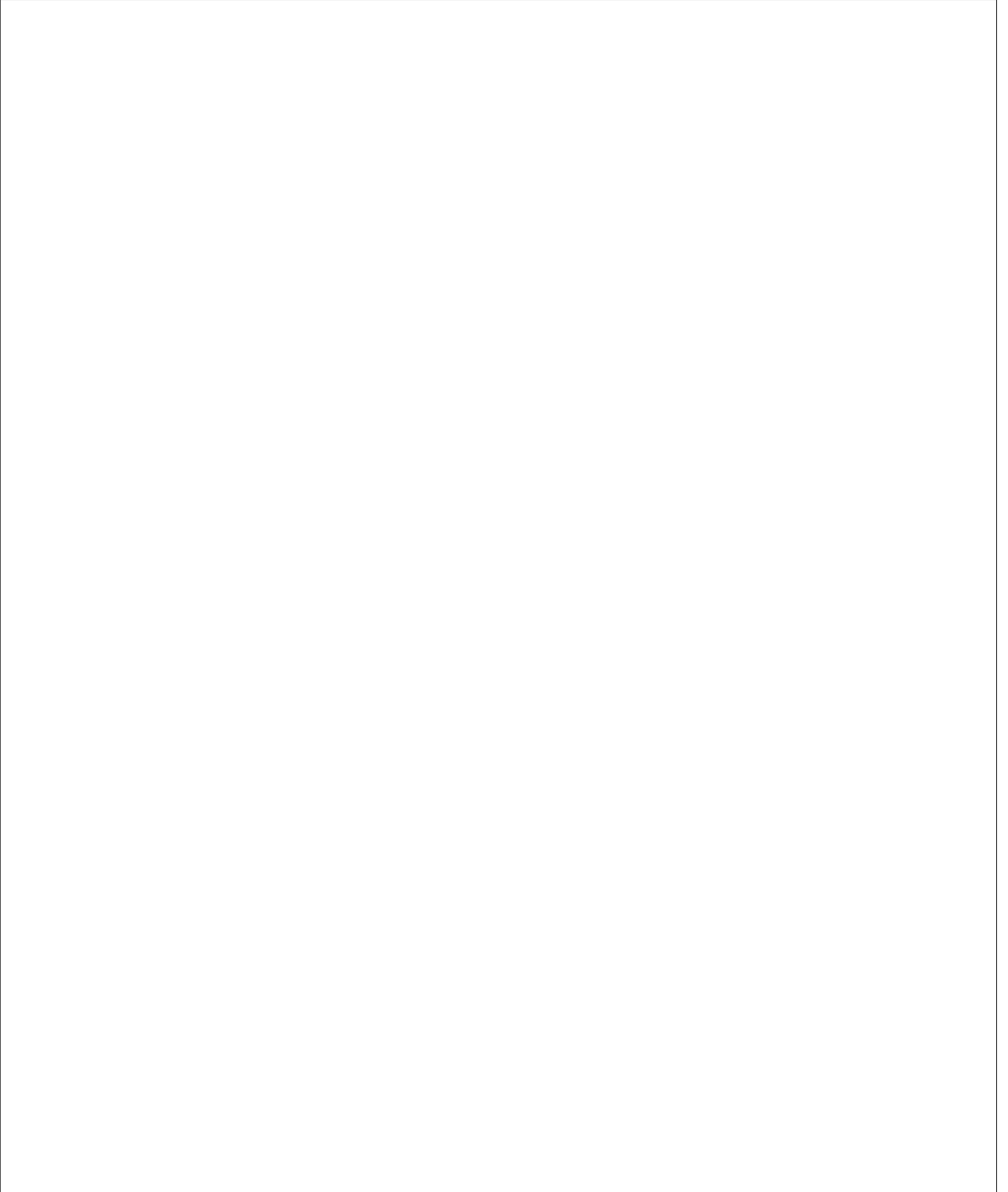
MASTER PROGRAMME  
Rev 1-B 23 Aug 2021



Task  Split  Milestone  Summary 

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	Predecessors	
560	BD: Reinspection date with defects and rectification works	60 days	Mon 22/5/23	Thu 20/7/23	559	
561	<b>BD: Obtain Occupation Permit (OP) from BD</b>	<b>1 day</b>	<b>Fri 21/7/23</b>	<b>Fri 21/7/23</b>	<b>560</b>	
562	<b>As-Built Drawings &amp; Handover Documentation</b>	<b>120 days</b>	<b>Mon 1/5/23</b>	<b>Mon 28/8/23</b>		
563	Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Mon 1/5/23	Wed 14/6/23	555FF+60 days	
564	Review and Approval	45 days	Thu 15/6/23	Sat 29/7/23	563	
565	As-Built Drawings & Handover Documentation - Revision by MC	30 days	Sun 30/7/23	Mon 28/8/23	564	
566	Revised As-Built Drawings & Handover Documentation - Final Submission	0 days	Mon 28/8/23	Mon 28/8/23	565	
567	<b>Completion of the Whole Contract Works</b>	<b>119 days</b>	<b>Sat 22/7/23</b>	<b>Fri 17/11/23</b>		
568	1st Client Inspection for Review and Comments	30 days	Sat 22/7/23	Sun 20/8/23	561	
569	Defects and Rectification works	60 days	Mon 21/8/23	Thu 19/10/23	568	
570	2nd Client Inspection	14 days	Fri 20/10/23	Thu 2/11/23	569	
571	Minor Defects Rectification Works and Final Inspection	15 days	Fri 3/11/23	Fri 17/11/23	570	
572	<b>PRACTICAL COMPLETION</b>	<b>0 days</b>	<b>Fri 17/11/23</b>	<b>Fri 17/11/23</b>	<b>571</b>	



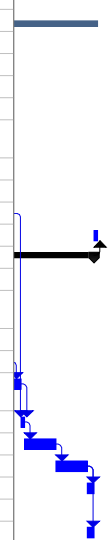
ID	Task Name	Duration	Start	Finish	Predecessors	Jul	3rd Quarter Aug	Sep	Oct
1	<b>19-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension</b>	<b>390 days</b>	<b>Fri 22/7/22</b>	<b>Tue 15/8/23</b>					
2	<b>No. 5 C.W. Intake</b>	<b>390 days</b>	<b>Fri 22/7/22</b>	<b>Tue 15/8/23</b>					
3	Delivery of Precast No. 5 Intake Chamber	3 days	Fri 22/7/22	Sun 24/7/22					
4	Installation of Precast No. 5 Intake Chamber	2 days	Mon 25/7/22	Tue 26/7/22	3				
5	Prepare formation level for reinstall culvert	18 days	Wed 27/7/22	Sat 13/8/22	4				
6	Reinstate of culvert	7 days	Mon 15/8/22	Sun 21/8/22	5				
7	Reinstate of seawall block	28 days	Mon 22/8/22	Sun 18/9/22	6				
8	Backfill at East Side	20 days	Mon 19/9/22	Sat 8/10/22	7				
9	Reinstate of seawall coping	30 days	Thu 3/11/22	Fri 2/12/22	8FS+25 days				
10	Temporary backfill for access at east of Intake Chamber	10 days	Sat 3/12/22	Mon 12/12/22	9				
11	Handover back from erection contractor at Intake Road	1 day	Mon 15/5/23	Mon 15/5/23	10				
12	UU works and reinstatement of Intake Road	92 days	Tue 16/5/23	Tue 15/8/23	11				
13	<b>Steel Parapet along seawall</b>	<b>46 days</b>	<b>Tue 18/4/23</b>	<b>Fri 2/6/23</b>					
14	Delievery of steel parapet (Removed for Chamber installation portion)	1 day	Tue 18/4/23	Tue 18/4/23	12				
15	Installation of steel parapet (Removed for chamber installation portion)	7 days	Mon 29/5/23	Sun 4/6/23	14FS+40 days				
16	Removal of existing steel parapet for replacement	7 days	Mon 5/6/23	Sun 11/6/23	15				
17	Installation of steel parapet (Replacement)	21 days	Mon 12/6/23	Sun 2/7/23	16				
18	<b>Steel Gantry Frame above Bar Screen Chamber</b>	<b>21 days</b>	<b>Tue 25/4/23</b>	<b>Mon 15/5/23</b>					
19	Delivery of steel members	1 day	Thu 15/6/23	Thu 15/6/23	17				
20	Installation of gantry frame	14 days	Fri 16/6/23	Thu 29/6/23	19				
21	<b>Bollard &amp; Fender</b>	<b>151 days</b>	<b>Wed 1/3/23</b>	<b>Sat 29/7/23</b>					
22	Confirmation and order of bollard and fender	1 day	Wed 1/3/23	Wed 1/3/23	20				
23	Fabrication and delivery of bollard & fender	100 days	Thu 2/3/23	Fri 9/6/23	22				
24	Installation of bollard (1 no.)	1 day	Sat 10/6/23	Sat 10/6/23	23				
25	Rebar fixing & Concreting	2 days	Sun 11/6/23	Mon 12/6/23	24				
26	Removal of existing fender	15 days	Sat 10/6/23	Sat 24/6/23	25				
27	Installation of fender	35 days	Sun 25/6/23	Sat 29/7/23	26				
28	<b>In-situ Construction Work for Intake Chamber</b>	<b>339 days</b>	<b>Sat 20/8/22</b>	<b>Mon 24/7/23</b>					
29	<b>Backfilling Work between Pipepile and Intake Chamber External Wall</b>	<b>19 days</b>	<b>Sat 20/8/22</b>	<b>Wed 7/9/22</b>					
33	Backfilling at Discharge Valve Chamber	10 days	Fri 9/9/22	Sun 18/9/22	27				
34	Installation of Concrete Block inside/ on intake chamber/ culvert	25 days	Tue 23/8/22	Fri 16/9/22	28				
35	Removal of Internal Strut/ King Post	28 days	Sat 20/8/22	Fri 16/9/22	29				
36	Dewatering in Chamber Internal Side	3 days	Tue 20/9/22	Thu 22/9/22	30,31,33				
37	Corrosion Protection of Rebar	8 days	Fri 23/9/22	Fri 30/9/22	32				
38	<b>Construction of Intake Chamber External Wall to Level +5.70mPD</b>	<b>189 days</b>	<b>Sun 28/8/22</b>	<b>Sat 4/3/23</b>					
39	<b>Erection of Scaffolding Supporting Bracket</b>	<b>37 days</b>	<b>Sun 28/8/22</b>	<b>Mon 3/10/22</b>					
44	<b>Installation of Scaffolding Chamber Internal Side</b>	<b>51 days</b>	<b>Sat 3/9/22</b>	<b>Sun 23/10/22</b>					
45	<b>Chamber Internal Side</b>	<b>51 days</b>	<b>Sat 3/9/22</b>	<b>Sun 23/10/22</b>					
50	<b>Chamber External Side</b>	<b>51 days</b>	<b>Sat 3/9/22</b>	<b>Sun 23/10/22</b>					
55	<b>Rebar Fixing &amp; Formwork</b>	<b>58 days</b>	<b>Thu 8/9/22</b>	<b>Fri 4/11/22</b>					
59	<b>Concreting</b>	<b>18 days</b>	<b>Thu 29/9/22</b>	<b>Sun 16/10/22</b>					
63	<b>Wall construction at Penstock Chamber</b>	<b>132 days</b>	<b>Mon 24/10/22</b>	<b>Sat 4/3/23</b>					
72	<b>Excavation and installation of CW culvert pipes</b>	<b>45 days</b>	<b>Sat 15/10/22</b>	<b>Mon 28/11/22</b>					
76	On grade slab & plinths construction at west of Intake Chamber	14 days	Tue 29/11/22	Mon 12/12/22	75				
77	<b>Construction of trash pit &amp; RC footings for hoist support</b>	<b>218 days</b>	<b>Wed 16/11/22</b>	<b>Wed 21/6/23</b>					
78	Backfill to bottom level of trash pit at south of Intake Chamber	7 days	Wed 16/11/22	Tue 22/11/22	61FS+10 days				
79	RC works for trash pit & hoist support footings	30 days	Mon 6/2/23	Tue 7/3/23	78,314FF				
80	Construction of sump pit (VO) & eastern portion of flood wall "I"	20 days	Wed 8/3/23	Mon 27/3/23	79				
81	Backfill to ground level at south of Intake Chamber	4 days	Tue 28/3/23	Fri 31/3/23	80				
82	Handover to TDK for installation of hoist	37 days	Sat 1/4/23	Sun 7/5/23	81				
83	On grade slab & plinths construction at south of Intake Chamber	45 days	Mon 8/5/23	Wed 21/6/23	82				
84	<b>North Chamber (L12)</b>	<b>91 days</b>	<b>Fri 23/9/22</b>	<b>Thu 22/12/22</b>					
149	<b>W20 (Seal up L12 Box-out openings at discharge valve chamber)</b>	<b>15 days</b>	<b>Wed 15/3/23</b>	<b>Wed 29/3/23</b>					
150	Handover to Paul Y for Sealing up work	1 day	Wed 15/3/23	Wed 15/3/23	149				
151	Rebar fixing, Formwork, Concreting and Removal of Formwork	14 days	Thu 16/3/23	Wed 29/3/23	150				
152	<b>L12 Penstock Chamber</b>	<b>18 days</b>	<b>Mon 10/4/23</b>	<b>Thu 27/4/23</b>					
153	Handover to Paul Y for additional RC curb	1 day	Mon 10/4/23	Mon 10/4/23	151				
154	Drilled in rebar	7 days	Tue 11/4/23	Mon 17/4/23	153				
155	Formwork	2 days	Tue 18/4/23	Wed 19/4/23	154				
156	Concreting	1 day	Thu 20/4/23	Thu 20/4/23	155				
157	Installation of GRP catladder	2 days	Wed 26/4/23	Thu 27/4/23	156				
158	<b>L12 Bar Screen Chamber</b>	<b>95 days</b>	<b>Fri 24/2/23</b>	<b>Mon 29/5/23</b>					
159	Drilled in anchor bolt at concrete recess of bar screen chamber	7 days	Fri 24/2/23	Thu 2/3/23	157				
160	Installation of Bar Screen Guide Channel (Bottom & Based Portion)	7 days	Fri 3/3/23	Thu 9/3/23	158				
161	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Fri 10/3/23	Thu 16/3/23	160				
162	Grouting	18 days	Fri 17/3/23	Mon 3/4/23	161				
163	Removal of formwork & temporary struct	3 days	Tue 4/4/23	Thu 6/4/23	162				
164	Modification works of bar screen walls	15 days	Fri 7/4/23	Fri 21/4/23	163				
165	Removal of scaffold and installation of GRP catladder	3 days	Sat 22/4/23	Mon 24/4/23	164				
166	Delivery of Rubber gasket for replacement	1 day	Thu 27/4/23	Thu 27/4/23	165				
167	Replacement of damaged Rubber gasket for CW4 Penstock	2 days	Fri 28/4/23	Sat 29/4/23	166				
168	Installation of temporary water gate (Use existing water gate from Intake Chamber)	1 day	Sun 30/4/23	Sun 30/4/23	165,167				
169	Removal of temporary water gate	1 day	Mon 29/5/23	Mon 29/5/23	168				
170	<b>L12 2nd Bar Screen Chamber and culvert</b>	<b>65 days</b>	<b>Mon 27/3/23</b>	<b>Tue 30/5/23</b>					
171	Drilled in anchor bolt at concrete recess of bar screen chamber	6 days	Mon 27/3/23	Sat 1/4/23	169				
172	Form Access Panel and pump out remaining water inside culvert	4 days	Mon 3/4/23	Thu 6/4/23	170				
173	Observation for any leakage from steel gate at culvert inlet	4 days	Fri 7/4/23	Mon 10/4/23	171				
174	Installation of Bar Screen Guide Channel (Bottom & Based Portion) & temporary struct for temporary water gate	12 days	Tue 11/4/23	Sat 22/4/23	172				
175	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Tue 18/4/23	Mon 24/4/23	174FF+2 days				
176	Grouting	6 days	Sun 23/4/23	Fri 28/4/23	175				

Project: 19-83014 - No. 5 Intake and Cable Br  
 Date: 28 May 2023  
 Rev. 10 - Programme for No. 5 C.W. Intake

Task		External Milestone		Manual Summary Rollup	
Split		Inactive Task		Manual Summary	
Milestone		Inactive Milestone		Start-only	
Summary		Inactive Summary		Finish-only	
Project Summary		Manual Task		Progress	
External Tasks		Duration-only		Deadline	



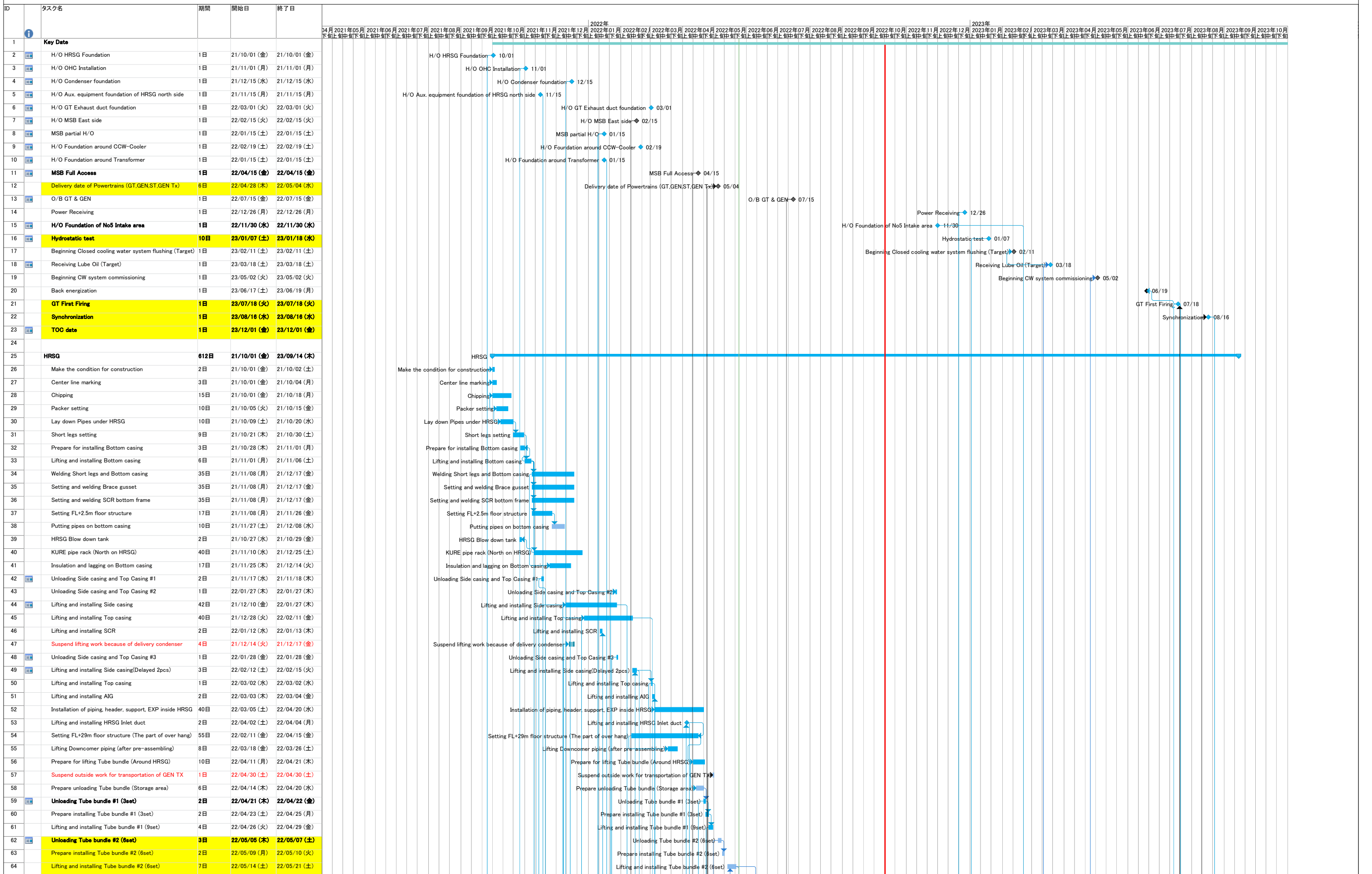
ID	Task Name	Duration	Start	Finish	Predecessors	Jul	3rd Quarter Aug	Sep	Oct
177	Installation of Dosing Pipe for vertical portion	2 days	Tue 25/4/23	Wed 26/4/23	175				
178	Removal of formwork & temporary struct (by Paul Y.), installation of conduit (by other) and removal of scaffolding	3 days	Sat 29/4/23	Mon 1/5/23	176,177				
179	Installation of GRP catladder	1 day	Tue 2/5/23	Tue 2/5/23	178				
180	Water filling of chamber	1 day	Wed 3/5/23	Wed 3/5/23	168,179				
181	Removal of Steel Gate (Friendly Benefit)	9 days	Thu 4/5/23	Fri 12/5/23	180				
182	Removal of Steel Gate at Culvert Inlet L12 (WOD)	4 days	Thu 27/4/23	Sun 30/4/23	177				
183	Installation of Dosing Pipe for culvert portion	6 days	Mon 1/5/23	Sat 6/5/23	182				
184	Connection of Dosing Pipe for culvert & vertical portion	2 days	Sat 13/5/23	Sun 14/5/23	181,183				
185	Testing & Commissioning	1 day	Tue 30/5/23	Tue 30/5/23	169,184				
186	<b>Centre Chamber (Spare)</b>	<b>124 days</b>	<b>Tue 25/10/22</b>	<b>Sat 25/2/23</b>					
238	<b>W20 (Seal up spare Box-out openings at discharge valve chamber)</b>	<b>15 days</b>	<b>Sat 15/4/23</b>	<b>Sat 29/4/23</b>					
239	Handover to Paul Y for Sealing up work	1 day	Sat 15/4/23	Sat 15/4/23					
240	Rebar fixing, Formwork, Concreteing and Removal of Formwork	18 days	Sun 16/4/23	Wed 3/5/23	239				
241	<b>Spare Penstock Chamber</b>	<b>11 days</b>	<b>Wed 31/5/23</b>	<b>Sat 10/6/23</b>					
242	Drilled in rebar	7 days	Wed 31/5/23	Tue 6/6/23	156FS+40 day				
243	Handover to TDK for installation of Cast-in embedment	1 day	Wed 7/6/23	Wed 7/6/23	242				
244	Formwork	2 days	Thu 8/6/23	Fri 9/6/23	243				
245	Concreting	1 day	Sat 10/6/23	Sat 10/6/23	244				
246	<b>Spare Bar Screen Chamber</b>	<b>65 days</b>	<b>Sun 2/4/23</b>	<b>Mon 5/6/23</b>					
247	Drilled in anchor bolt at concrete recess of bar screen chamber	7 days	Sun 2/4/23	Sat 8/4/23	171				
248	Installation of Bar Screen Guide Channel (Bottom & Based Portion)	14 days	Tue 2/5/23	Mon 15/5/23	178,247				
249	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Tue 16/5/23	Mon 22/5/23	248				
250	Grouting	7 days	Tue 23/5/23	Mon 29/5/23	249				
251	Removal of formwork & temporary struct (by Paul Y.) and installation of conduit (by other)	3 days	Tue 30/5/23	Thu 1/6/23	250				
252	Modification works of bar screen walls	14 days	Tue 23/5/23	Mon 5/6/23	249				
253	Removal of scaffold and installation of GRP catladder	3 days	Tue 6/6/23	Thu 8/6/23	252				
254	Installation of temporary water gate (Use existing water gate from Int	1 day	Fri 9/6/23	Fri 9/6/23	169,253				
255	Removal of temporary water gate	1 day	Mon 24/7/23	Mon 24/7/23	256				
256	<b>Spare 2nd Bar Screen Chamber and culvert</b>	<b>106 days</b>	<b>Sun 9/4/23</b>	<b>Sun 23/7/23</b>					
257	Drilled in anchor bolt at concrete recess of bar screen chamber	6 days	Sun 9/4/23	Fri 14/4/23	247				
258	Installation of Bar Screen Guide Channel (Bottom & Based Portion) & temporary struct for temporary water gate	14 days	Fri 2/6/23	Thu 15/6/23	251				
259	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Fri 16/6/23	Thu 22/6/23	258				
260	Grouting	7 days	Fri 23/6/23	Thu 29/6/23	259				
261	Removal of formwork & temporary struct (by Paul Y.), installation of conduit (by other) and removal of scaffolding	3 days	Fri 30/6/23	Sun 2/7/23	260				
262	Water filling of chamber	1 day	Mon 3/7/23	Mon 3/7/23	254,261				
263	Removal of Steel Gate (Friendly Benefit)	9 days	Tue 4/7/23	Wed 12/7/23	262				
264	Installation of Dosing Pipe	9 days	Thu 13/7/23	Fri 21/7/23	263				
265	Testing & Commissioning	2 days	Sat 22/7/23	Sun 23/7/23	264				
266	Removal of Steel Gate at Culvert Inlet L12 (WOD)	2 days	Mon 15/5/23	Tue 16/5/23	184				
267	Installation of GRP catladder	2 days	Sat 22/7/23	Sun 23/7/23	264				
268	<b>South Chamber (L13)</b>	<b>130 days</b>	<b>Wed 23/11/22</b>	<b>Sat 1/4/23</b>					
320	<b>L13 Penstock Chamber</b>	<b>11 days</b>	<b>Sun 11/6/23</b>	<b>Wed 21/6/23</b>					
321	Drilled in rebar	7 days	Sun 11/6/23	Sat 17/6/23	245				
322	Handover to TDK for installation of Cast-in embedment	1 day	Sun 18/6/23	Sun 18/6/23	321				
323	Formwork	2 days	Mon 19/6/23	Tue 20/6/23	322				
324	Concreting	1 day	Wed 21/6/23	Wed 21/6/23	323				



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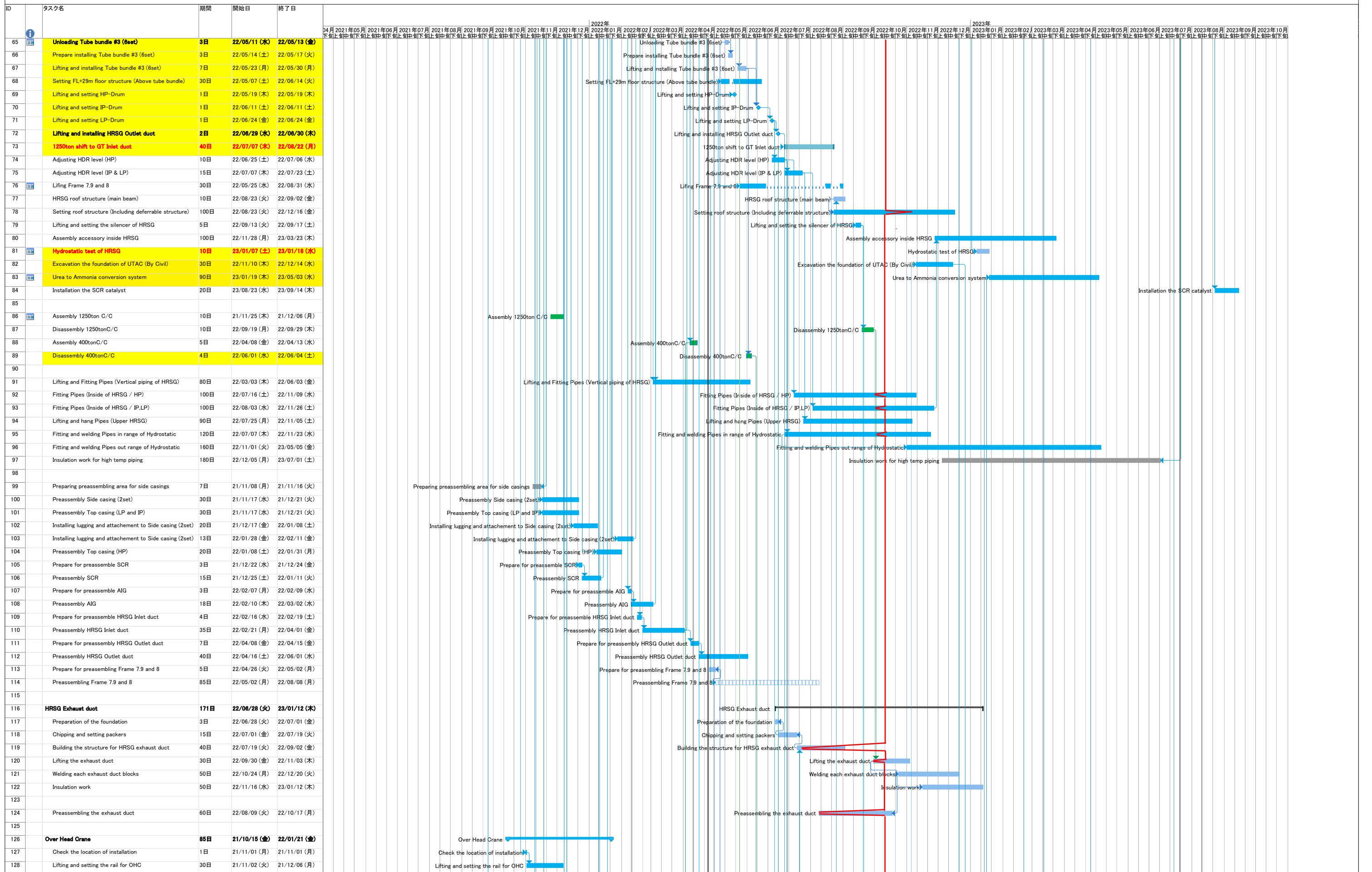
Construction Schedule of Unit-12  
R7



This schedule was based on belows;  
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 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

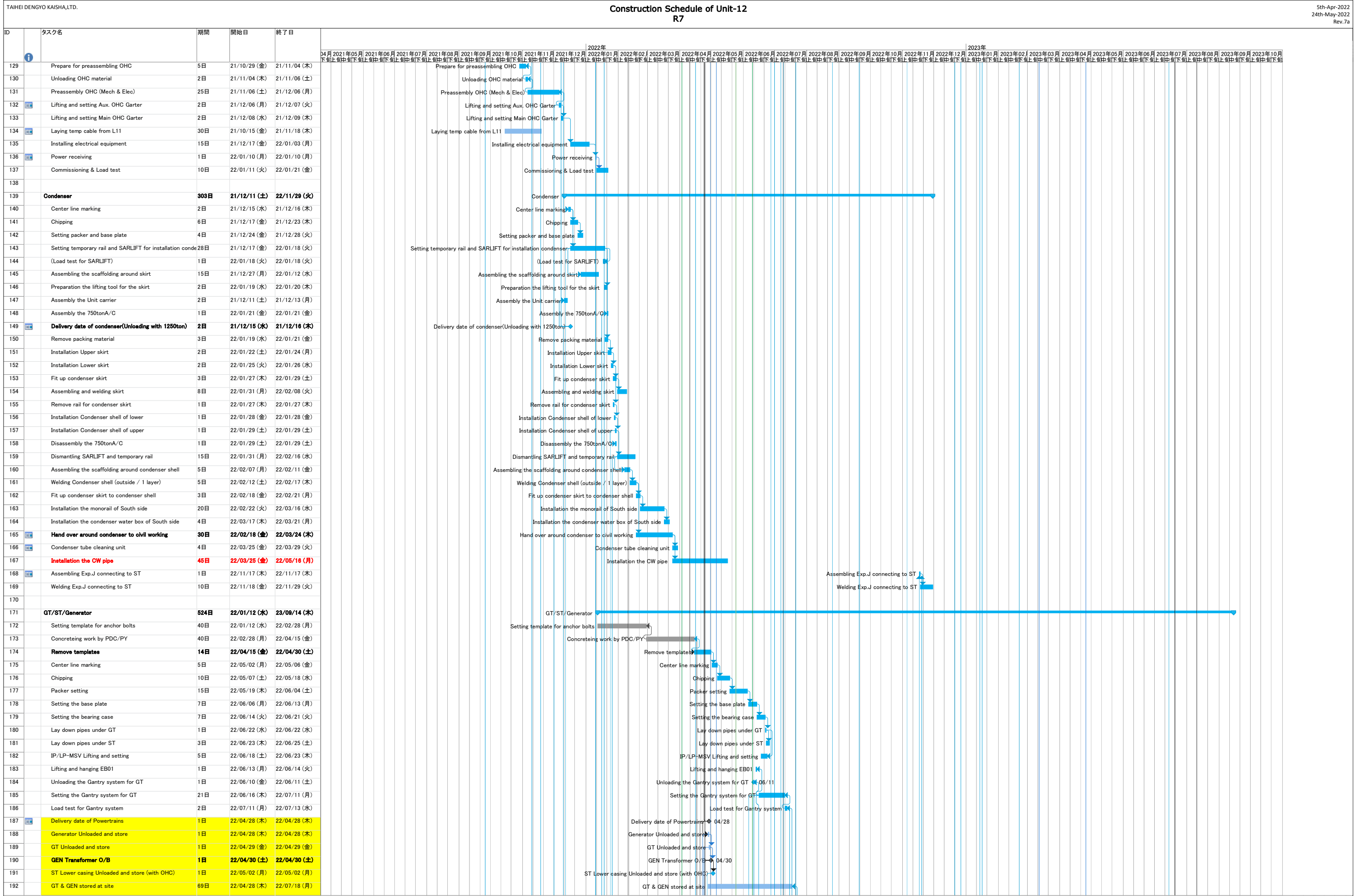
iii) Corrected by the comment of HKE on 11th-May-2022

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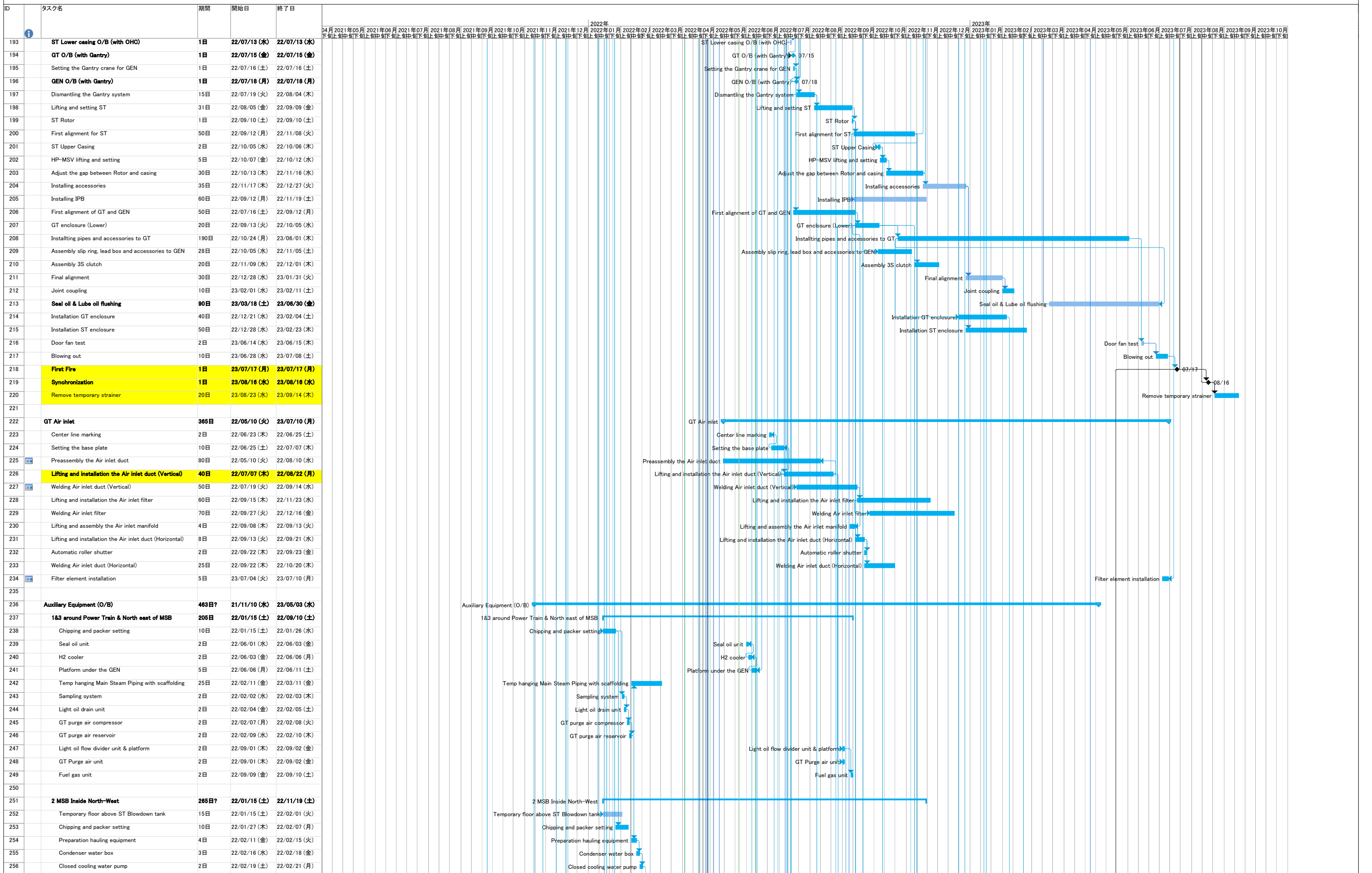
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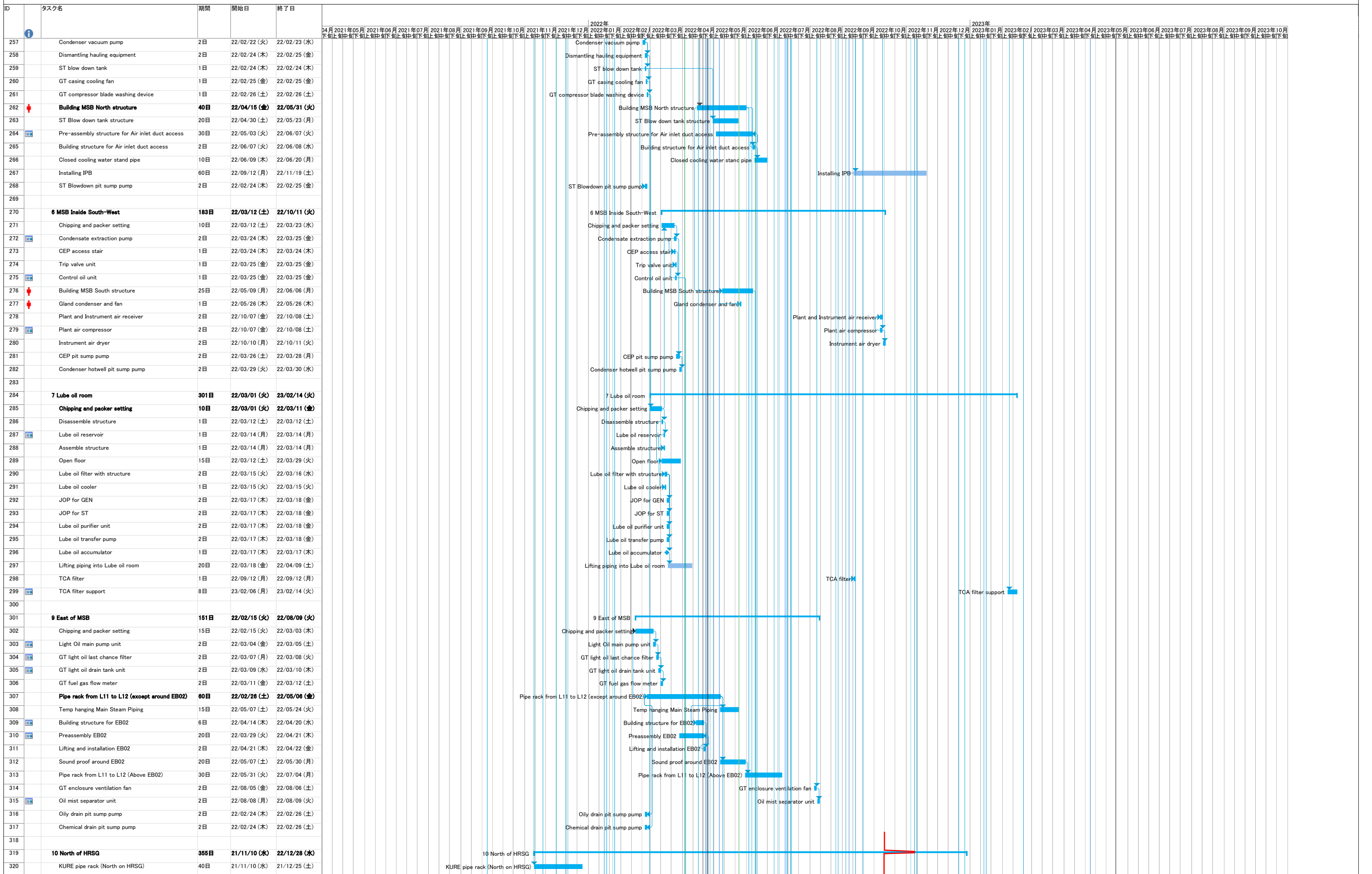
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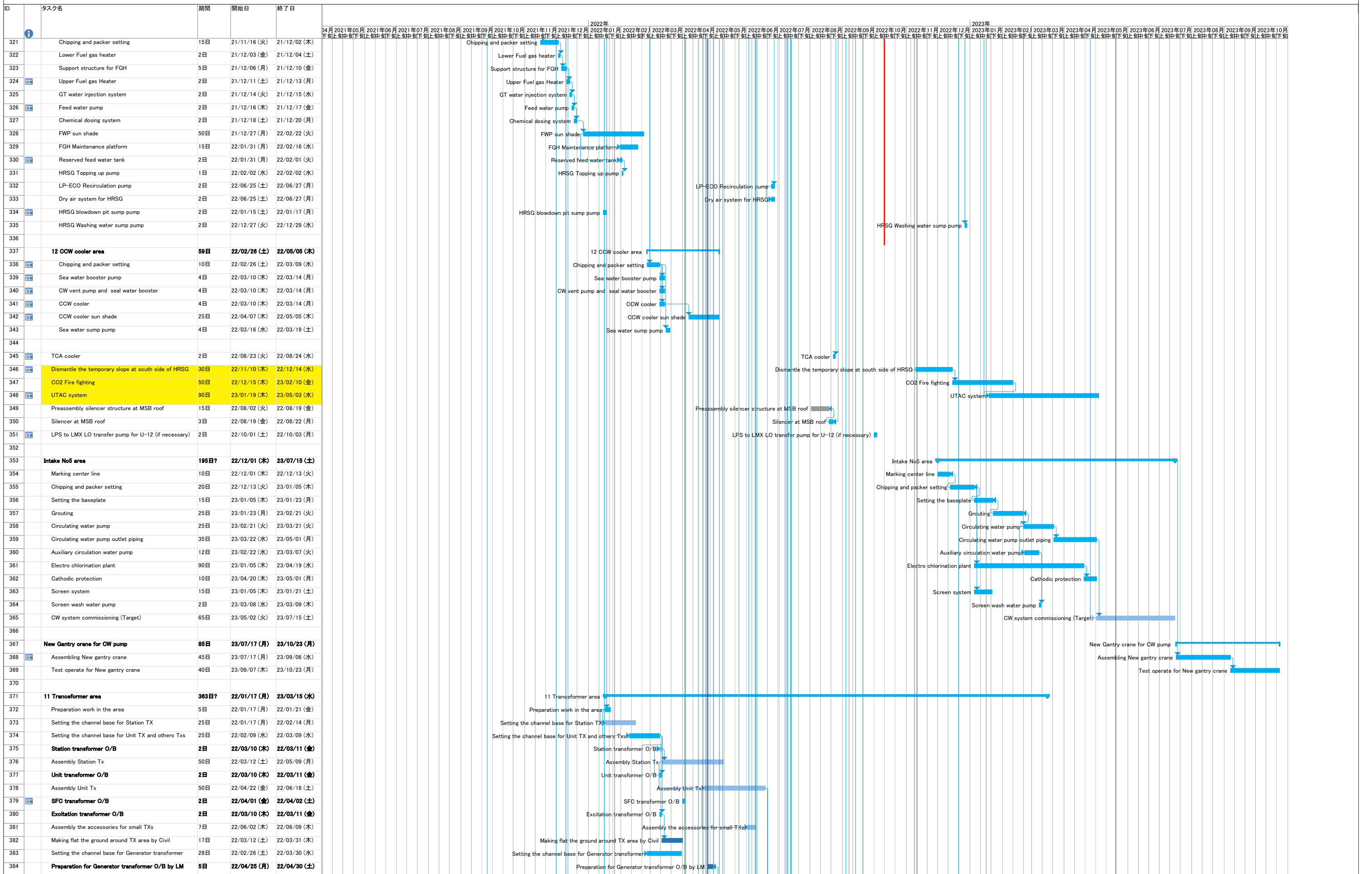
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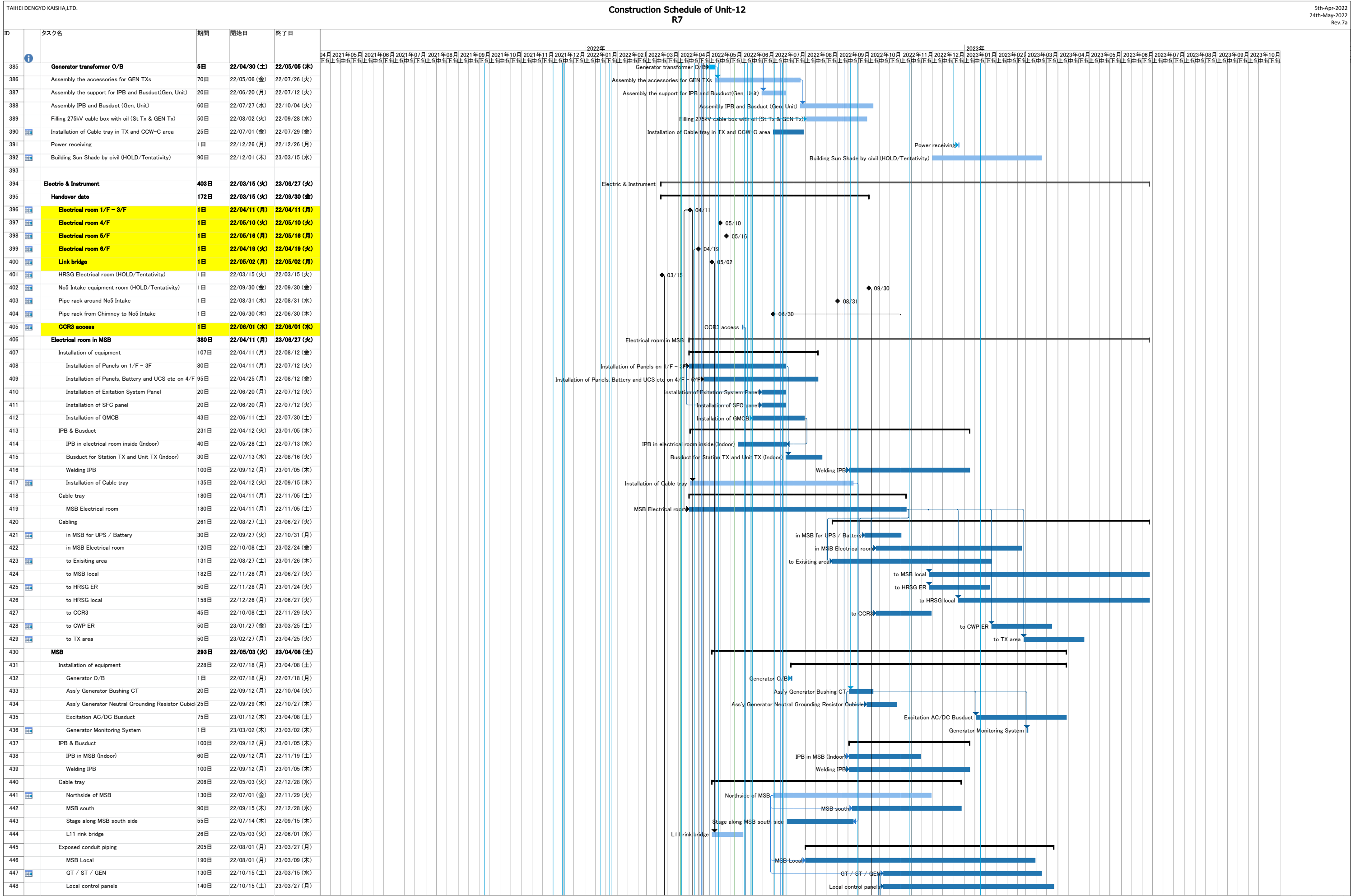
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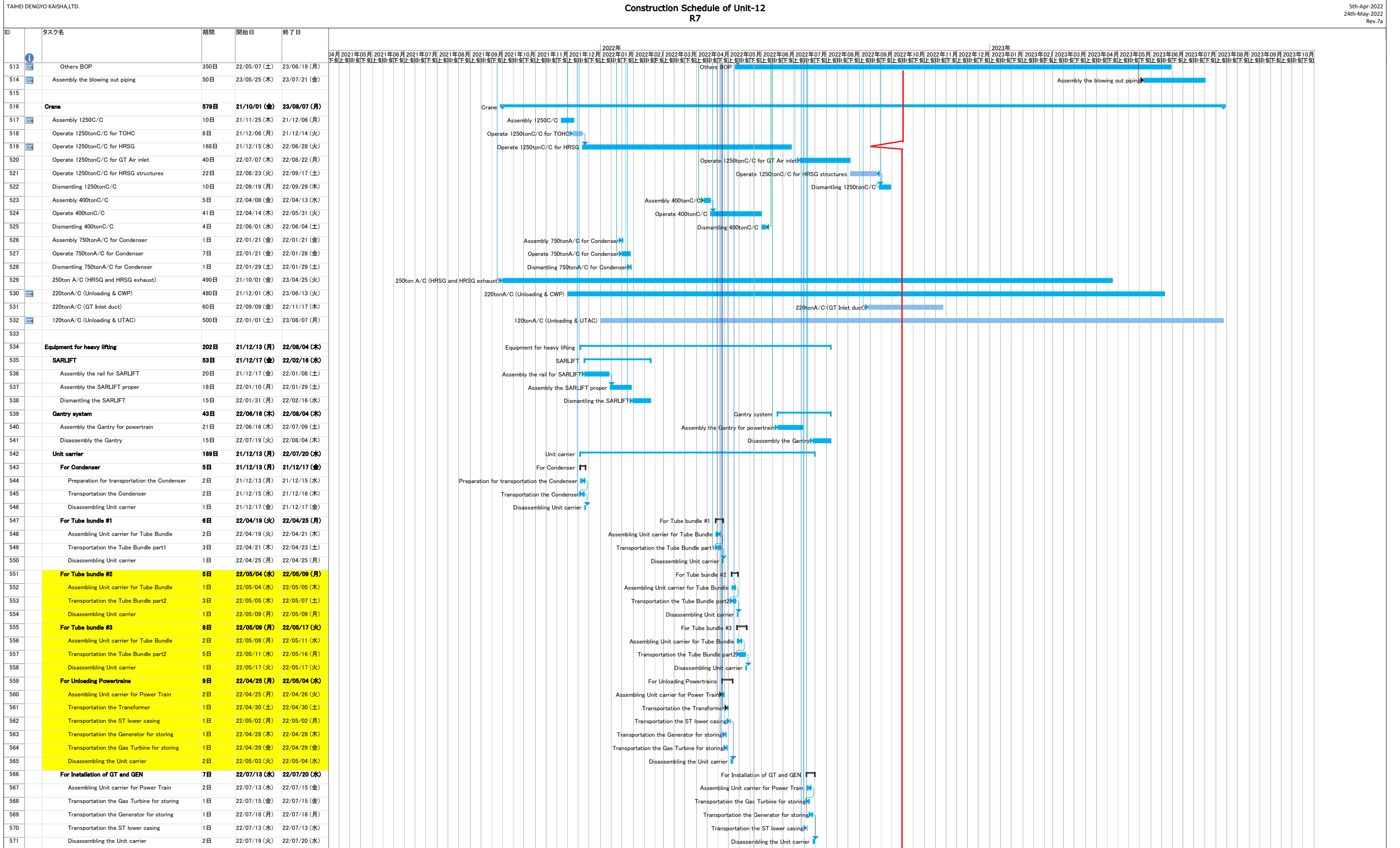


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